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<211> 2265
<212> DNA
<213> Homo sapiens

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<210> 8144
<211> 1934
<212> DNA
<213> Homo sapiens

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<211> 1934
<212> DNA
<213> Homo sapiens

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<211> 1931
<212> DNA
<213> Homo sapiens

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<211> 1934
<212> DNA
<213> Homo sapiens

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<211> 866
<212> DNA
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<211> 348
<212> DNA
<213> Homo sapiens

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<210> 8150
<211> 348
<212> DNA
<213> Homo sapiens

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<210> 8151
<211> 893
<212> DNA
<213> Homo sapiens

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<210> 8152
<211> 349
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<213> Homo sapiens

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<210> 8173
<211> 2350
<212> DNA
<213> Homo sapiens

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tcctgcgctc catcggcatg gacccgagcg acatctacgc ggtcatccag atcccgggca    240
gccgcgaatt cgacgtgagc ttccgctcag cggagaagct ggccctgttc ctacgcgtct    300
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aggggcagcc caagacatgc tttaaatgtg gttcccggac ccacatgagc ggcagctgca    660
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gcatcgtgtg caacctctgt ggcaagcgag gacacgcctt tgcccagtgt cccaaagcag    780
tgcacaattc cgtggcagct cagctaaccg gcgtggccgg gcactaaaca cccgcctgcc    840
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<210> 8174
<211> 823
<212> DNA
<213> Homo sapiens

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tatgacttac ttggaaatgt atcaaaaaat aaagaccgat gaatggatcg aggcgtagtg     180
tgacagagta aaattttaat gataaaaagt taatggtaaa atgttcactg taaaactttc     240
aacttttctt cttgaaaacg tgcataatcc gacgtgggaa aaaaaataac gcattgcagt     300
cagttctggg gaaacggaaa gctaagtttt aattttgcta ttgcttttgc tttttttaaca    360
gaaaaggtac aaaaaagaaa aaatgggaga gatgttgccg aactccgtcc cgcctgtggg     420
ctgtgggccg ttagcaaagc tgctagcatg aaatcgtcga gcaccgcttg cgaaacgcca     480
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cccggcgggc gggcgcgcgc gatgggcgcc ctttggctgc gggagcgagt ggaggatgct     780
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<210> 8175
<211> 823
<212> DNA
<213> Homo sapiens

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tatgacttac ttggaaatgt atcaaaaaat aaagaccgat gaatggatcg aggcgtagtg     180
tgacagagta aaattttaat gataaaaagt taatggtaaa atgttcactg taaaactttc     240
aacttttctt cttgaaaacg tgcataatcc gacgtgggaa aaaaaataac gcattgcagt     300
cagttctggg gaaacggaaa gctaagtttt aattttgcta ttgcttttgc tttttttaaca    360
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cagcgcaggg ggcgcagagc cggcgctggc caatatgcgc cgcatgtgat acctttgagg 660
gcgcggcggg ggagggtagc gtcaaatttc aaaaaaaaaa aaaaaccaaa cccacacagc 720
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gggaaggagg taaaatggcc accggcggcg gcgcggagga aga 823

<210> 8176
<211> 1169
<212> DNA
<213> Homo sapiens

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tctttttttgc ttttgtcgcc atggaatatc tttttttcat ctgcttattt tcagcctatg 180
tgtgtcttta taagtgaaat gtgtttcttg tagacaacag ataattgggt cttgtttttt 240
tatccattca gagccactct gtgtcttttg atttgagagt ttagtgcgtt tccattgtta 300
ttaagaagta aggatatgtt ctgccattgt attgtttgtc ttttgcttgt tttgtggtct 360
tctcttcctt tcttcattcc ttcatttctt ttattgaagg tgattttgtc ttgtggtatg 420
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ttaccagtga gttttggacc ttcagttgat ttcttattac tcatcaactt ccttttcttt 840
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aagaaaaaaa aaaaaaagaa acagaaaaa 1169

<210> 8177
<211> 1169
<212> DNA
<213> Homo sapiens

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tctttttttgc ttttgtcgcc atggaatatc tttttttcat ctgcttattt tcagcctatg 180
tgtgtcttta taagtgaaat gtgtttcttg tagacaacag ataattgggt cttgtttttt 240
tatccattca gagccactct gtgtcttttg atttgagagt ttagtgcgtt tccattgtta 300
ttaagaagta aggatatgtt ctgccattgt attgtttgtc ttttgcttgt tttgtggtct 360
tctcttcctt tcttcattcc ttcatttctt ttattgaagg tgattttgtc ttgtggtatg 420
atttaatttc ttccttttta tttttaggt atatgttata tggtttttga tttgaggtta 480
tgatgagtct tgcaaatatt atcttacaac ctattatttt aagctgacaa ccacttaaca 540
ttgcataggc aaaaacacac agaggcaaaa agaaaaccaa taaaagctct acactttagc 600
ctcttgcttt ttaacttttt gttgtctctg tttatatctc attataattt ctatgtcttg 660
aaaagttgtc attattagtt ttggttggtt catcttttag tctttctcct taagatcaga 720
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ttaccagtga gttttggacc ttcagttgat ttcttattac tcatcaactt ccttttcttt 840
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gaggctgagg tgggctgatc ccttgaggtc aggagttcga gaccatcctg gaaaatgtgg 960
caaagctcca tctgtactaa aaatataaaa aattagttgg gtgttgtggc gagcacctgt 1020

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cagtgagccg agatcgcacc gctgtactcc agcctgggtg acagagcgag acgccatctc    1140
aagaaaaaaa aaaaaaagaa acagaaaaa                                       1169


<210> 8178
<211> 702
<212> DNA
<213> Homo sapiens

<400> 8178
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tcatttagca ttaggtatat cacctaatgc tatccctccc ccgtcccccc accccacaac     180
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cctgtgagtg agaacatgtg gtgtttggtt ttctgttctt gcaatacttt gctgagaatg     300
atggtttcca gcttcatcca tgtccctgca aagggcatga actcatcatt ttttatggct     360
gcatagtatt ccatggtgta tatgtgccac attttcttaa tccagtctac cattgttgga     420
catttgggtt gattccaagt ctttgctatt gtgaatagtg ctgcaataaa catacgtgtg     480
catgtgtctt tatagcagca tgatttataa tcctttgggt atatatccag taatgggatg     540
gctgggtcaa atggtatttg tagttctaga tccctgagga atcgccacac caacttccac     600
agtggttgaa ctagtttaca gtcccaccaa cagtgtaaaa gtgttcctat ttctccacat     660
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<210> 8179
<211> 702
<212> DNA
<213> Homo sapiens

<400> 8179
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tcatttagca ttaggtatat cacctaatgc tatccctccc ccgtcccccc accccacaac     180
agtccctgga gtgtgatgtt ccccttcctg tgtccatgtg ttctcattgt tcaattccca     240
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atggtttcca gcttcatcca tgtccctgca aagggcatga actcatcatt ttttatggct     360
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agtggttgaa ctagtttaca gtcccaccaa cagtgtaaaa gtgttcctat ttctccacat     660
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<210> 8180
<211> 361
<212> DNA
<213> Homo sapiens

<400> 8180
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ctttcaagca tcttgtgttt atgagaatac aggggcatct gcggaatgaa ttcgaacaca     180
tggatgaatt aaatttgaaa acacacagac cgagaggcag acagttccta ggctgtggtc     240
gttgcatgga ttttacaaaa ctgttaacct acacctttgg ctttgctgtg ttcattgtcc     300
tgggaagaat tgtgggttta agaattactc tttgattaaa ctacttaaaa aaaaaaaaaa     360
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<210> 8181
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<211> 4203
<212> DNA
<213> Homo sapiens

<400> 8181
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aagctgctct ccaggcacag aaacaagaac accatgaacg gtgccccgt ggagccctgc 180
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<211> 505
<212> DNA
<213> Homo sapiens

<400> 8182
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gggtggcaca gaggggaccc aggtatccca accgaggcaa tagctgtctg cctccatttg    180
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ggtggcacac acctgtaatc ccagctattt gggaggctga ggcaggagaa tcgcttgaac    420
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acagcaagac tctgtctcaa aaaaa                                          505


<210> 8183
<211> 8048
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
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<211> 1893
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 256
<212> DNA
<213> Homo sapiens

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<211> 256
<212> DNA
<213> Homo sapiens

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<212> DNA
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<212> DNA
<213> Homo sapiens

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<211> 1784
<212> DNA
<213> Homo sapiens

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<211> 1153
<212> DNA
<213> Homo sapiens

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<211> 1552
<212> DNA
<213> Homo sapiens

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<211> 1552
<212> DNA
<213> Homo sapiens

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<211> 1550
<212> DNA
<213> Homo sapiens

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<211> 1075
<212> DNA
<213> Homo sapiens

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<211> 308
<212> DNA
<213> Homo sapiens

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<210> 8286
<211> 256
<212> DNA
<213> Homo sapiens

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<210> 8287
<211> 1619
<212> DNA
<213> Homo sapiens

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<212> DNA
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<212> DNA
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<212> DNA
<213> Homo sapiens

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<211> 481
<212> DNA
<213> Homo sapiens

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<211> 488
<212> DNA
<213> Homo sapiens

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<212> DNA
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<211> 1713
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 665
<212> DNA
<213> Homo sapiens

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<210> 8328
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<212> DNA
<213> Homo sapiens

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<212> DNA
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<213> Homo sapiens

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<211> 109
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<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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ctcaaaaaaa aaaaaaagaa atg 143

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<212> DNA
<213> Homo sapiens

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gtctcaaaaa aaaaaaaaaa aaagaaagaa attg 154

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<211> 207
<212> DNA
<213> Homo sapiens

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aaaaaaaaaa aaaaaaaaaa aaaaaga 207

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<211> 162
<212> DNA
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<400> 8410
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<212> DNA
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<211> 193
<212> DNA
<213> Homo sapiens

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tcagaaaaaa ata                                                        193


<210> 8413
<211> 187
<212> DNA
<213> Homo sapiens

<400> 8413
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<212> DNA
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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<210> 8418
<211> 193
<212> DNA
<213> Homo sapiens

<400> 8418
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actaaatagg cctttgtggg ttatagcctt gggatctaca aatttaacaa gattgagaaa     180
acctaaggcc taattatctt tcagcctcat ctaatccttc cctcccaaag acgtgagcgc     240
cacatacatt cttatgcagc ctctcaacac accattcctt ttcgcatctc catacctctg     300
taatgtttct ttccctgcct ggaatgtgtt cttacccttc aagagtcagc tcaaattcac     360
atctgtgaaa tctaccttag tttgtacata tcaaataaca gatgtgtgtt tttgtgattc     420
ttcacattat gaacagcata aggtatttgc cattgttagt attatcccat atgag          475
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<210> 8434
<211> 476
<212> DNA
<213> Homo sapiens

<400> 8434
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actaaatagg cctttgtggg ttatagcctt gggatctaca aatttaacaa gattgagaaa 180
acctaaggcc taattatctt tcagcctcat ctaatccttc cctcccaaag acgtgagcgc 240
cacatacatt cttttgcagc ctctcaacac accattcctt ttcgcatctc catacctctg 300
taaatgtttc tttccctgcc tggaatgtgt tcttaccctt caagagtcag ctcaaattca 360
catctgtgaa atctacctta gtttgtacat atcaaataac agatgtgtgt ttttgtgatt 420
cttcacatta tgaacagcat aaggtatttg ccattgttag tattatccca tatgag 476

<210> 8435
<211> 640
<212> DNA
<213> Homo sapiens

<400> 8435
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aaaccctggc gttacccaac ttaatcgcct tgcagcacat ccccctttcg ccagctggcg 120
taatagcgaa gaggcccgca ccgatcgccc ttcccaacag ttgcgcagcc tgaatggcga 180
atggacgcgc cctgtagcgg cgcattaagc gcggcgggtg tggtggttac gcgcagcgtg 240
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gccacgttcg ccggctttcc ccgtcaagct ctaaatcggg ggctcccttt agggttccga 360
tttagtgctt tacggcacct cgaccccaaa aaacttgatt agggtgatgg ttcacgtagt 420
gggccatcgc cctgatagac ggtttttcgc cctttgacgt tggagtccac gttctttaat 480
agtggactct tgttccaaac tggaacaaca ctcaacccta tctcggtcta ttcttttgat 540
ttataaggga ttttgccgat ttcggcctat tggttaaaaa atgagctgat ttaacaaaaa 600
tttaacgcga attttaacaa aatattaacg cttacaattt 640

<210> 8436
<211> 606
<212> DNA
<213> Homo sapiens

<400> 8436
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aaaccctggc gttacccaac ttaatcgcct tgcagcacat ccccctttcg ccagctggcg 120
taatagcgaa gaggcccgca ccgatcgccc ttcccaacag ttgcgcagcc tgaatggcga 180
atggacgcgc cctgtagcgg cgcattaagc gcggcgggtg tggtggttac gcgcagcgtg 240
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gccacgttcg ccggctttcc ccgtcaagct ctaaatcggg ggctcccttt agggttccga 360
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gggccatcgc cctgatagac ggyttttcgc cctttgacgt tggagtccac gttctttaat 480
agtggactct tgttccaaac tggaacaaca ctcaacccta tctcggtcta ttcttttgat 540
ttataaggga ttttgccgat ttcggcctat tggttaaaaa atgagctgat ytaacaaaaa 600
tataac 606

<210> 8437
<211> 628
<212> DNA
<213> Homo sapiens

<400> 8437
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aaaccctggc gttacccaac ttaatcgcct tgcagcacat ccccctttcg ccagctggcg 120
taatagcgaa gaggcccgca ccgatcgccc ttcccaacag ttgcgcagcc tgaatggcga 180
atggacgcgc cctgtagcgg cgcattaagc gcggcgggtg tggtggttac gcgcagcgtg 240
accgctacac ttgccagcgc cctagcgccc gctcctttcg ctttcttccc ttcctttctc 300
gccacgttcg ccggctttcc ccgtcaagct ctaaatcggg ggctcccttt agggttccga 360
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gggccatcgc cctgatagac ggtttttcgc cctttgacgt tggagtccac gttctttaat 480
agtggactct tgttccaaac tggaacaaca ctcaacccta tctcggtcta ttcttttgat 540
ttataaggga ttttgccgat ttcggcctat tggttaaaaa atgagctgat ttacaaaatt 600
taacgcgaat tttacaaata ttacgctt 628

<210> 8438
<211> 640
<212> DNA
<213> Homo sapiens

<400> 8438
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aaaccctggc gttacccaac ttaatcgcct tgcagcacat ccccctttcg ccagctggcg 120
taatagcgaa gaggcccgca ccgatcgccc ttcccaacag ttgcgcagcc tgaatggcga 180
atggacgcgc cctgtagcgg cgcattaagc gcggcgggtg tggtggttac gcgcagcgtg 240
accgctacac ttgccagcgc cctagcgccc gctcctttcg ctttcttccc ttcctttctc 300
gccacgttcg ccggctttcc ccgtcaagct ctaaatcggg ggctcccttt agggttccga 360
tttagtgctt tacggcacct cgaccccaaa aaacttgatt agggtgatgg ttcacgtagt 420
gggccatcgc cctgatagac ggtttttcgc cctttgacgt tggagtccac gttctttaat 480
agtggactct tgttccaaac tggaacaaca ctcaacccta tctcggtcta ttcttttgat 540
ttataaggga ttttgccgat ttcggcctat tggttaaaaa atgagctgat ttaacaaaaa 600
tttaacgcga attttaacaa aatattaacg cttacaattt 640

<210> 8439
<211> 513
<212> DNA
<213> Homo sapiens

<400> 8439
gccctatagt gagtcgtatt acaattcact ggccgtcgtt ttacaacgtc gtgactggga 60
aaaccctggc gttacccaac ttaatcgcct tgcagcacat ccccctttcg ccagctggcg 120
taatagcgaa gaggcccgca ccgatcgccc ttcccaacag ttgcgcagcc tgaatggcga 180
atggacgcgc cctgtagcgg cgcattaagc gcggcgggtg tggtggttac gcgcagcgtg 240
accgctacac ttgccagcgc cctagcgccc gctcctttcg ctttcttccc ttcctttctc 300
gccacgttcg ccggctttcc ccgtcaagct ctaaatcggg ggctcccttt agggttccga 360
tttagtgctt tacggcacct cgaccccaaa aaacttgatt agggtgatgg ttcacgtagt 420
gggccatcgc cctgatagac ggtttttcgc cctttgacgt tggagtccac gttctttaat 480
agtggactct tgttccaaac tggaacaaca ctc 513

<210> 8440
<211> 612
<212> DNA
<213> Homo sapiens

<400> 8440
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aaaccctggc gttacccaac ttaatcgcct tgcagcacat ccccctttcg ccagctggcg 120
taatagcgaa gaggcccgca ccgatcgccc ttcccaacag ttgcgcagcc tgaatggcga 180
atggacgcgc cctgtagcgg cgcattaagc gcggcgggtg tggtggttac gcgcagcgtg 240
accgctacac ttgccagcgc cctagcgccc gctcctttcg ctttcttccc ttcctttctc 300

gccacgttcg ccggctttcc ccgtcaagct ctaaatcggg ggctcccttt agggttccga 360
tttagtgctt tacggcacct cgaccccaaa aaacttgatt agggtgatgg ttcacgtagt 420
gggccatcgc cctgatagac ggtttttcgc cctttgacgt tggagtccac gttctttaat 480
agtggactct tgttccaaac tggaacaaca ctcaacccta tctcggtcta ttcttttgat 540
ttataaggga ttttgccgat ttcggcctat tggttaaaca atgagctgat tgtaacaaaa 600
atttaacgcg aa 612

<210> 8441
<211> 640
<212> DNA
<213> Homo sapiens

<400> 8441
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aaaccctggc gttacccaac ttaatcgcct tgcagcacat ccccctttcg ccagctggcg 120
taatagcgaa gaggcccgca ccgatcgccc ttcccaacag ttgcgcagcc tgaatggcga 180
atggacgcgc cctgtagcgg cgcattaagc gcggcgggtg tggtggttac gcgcagcgtg 240
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gccacgttcg ccggctttcc ccgtcaagct ctaaatcggg ggctcccttt agggttccga 360
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gggccatcgc cctgatagac ggtttttcgc cctttgacgt tggagtccac gttctttaat 480
agtggactct tgttccaaac tggaacaaca ctcaacccta tctcggtcta ttcttttgat 540
ttataaggga ttttgccgat ttcggcctat tggttaaaaa atgagctgat ttaacaaaaa 600
tttaacgcga attttaacaa aatattaacg cttacaattt 640

<210> 8442
<211> 640
<212> DNA
<213> Homo sapiens

<400> 8442
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aaaccctggc gttacccaac ttaatcgcct tgcagcacat ccccctttcg ccagctggcg 120
taatagcgaa gaggcccgca ccgatcgccc ttcccaacag ttgcgcagcc tgaatggcga 180
atggacgcgc cctgtagcgg cgcattaagc gcggcgggtg tggtggttac gcgcagcgtg 240
accgctacac ttgccagcgc cctagcgccc gctcctttcg ctttcttccc ttcctttctc 300
gccacgttcg ccggctttcc ccgtcaagct ctaaatcggg ggctcccttt agggttccga 360
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gggccatcgc cctgatagac ggtttttcgc cctttgacgt tggagtccac gttctttaat 480
agtggactct tgttccaaac tggaacaaca ctcaacccta tctcggtcta ttcttttgat 540
ttataaggga ttttgccgat ttcggcctat tggttaaaaa atgagctgat ttaacaaaaa 600
tttaacgcga attttaacaa aatattaacg cttacaattt 640

<210> 8443
<211> 654
<212> DNA
<213> Homo sapiens

<400> 8443
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aaaccctggc gttacccaac ttaatcgcct tgcagcacat ccccctttcg ccagctggcg 120
taatagcgaa gaggcccgca ccgatcgccc ttcccaacag ttgcgcagcc tgaatggcga 180
atggacgcgc cctgtagcgg cgcattaagc gcggcgggtg tggtggttac gcgcagcgtg 240
accgctacac ttgccagcgc cctagcgccc gctcctttcg ctttcttccc ttcctttctc 300
gccacgttcg ccggctttcc ccgtcaagct ctaaatcggg ggctcccttt agggttccga 360
tttagtgctt tacggcacct cgaccccaaa aaacttgatt agggtgatgg ttcacgtagt 420
gggccatcgc cctgatagac ggtttttcgc cctttgacgt tggagtccac gttctttaat 480
agtggactct tgttccaaac tggaacaaca ctcaacccta tctcggtcta ttcttttgat 540

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ttataaggga ttttgccgat ttcggcctat tggttaaaaa atgagctgat ttaacaaaaa     600
tttaacgcga attttaacaa aatattaacg cttacaattt cctgatgcgg tatt           654


<210> 8444
<211> 647
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (619)
<223> n equals a,t,g, or c

<400> 8444
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aaaccctggc gttacccaac ttaatcgcct tgcagcacat ccccctttcg ccagctggcg     120
taatagcgaa gaggcccgca ccgatcgccc ttcccaacag ttgcgcagcc tgaatggcga     180
atggacgcgc cctgtagcgg cgcattaagc gcggcgggtg tggtggttac gcgcagcgtg     240
accgctacac ttgccagcgc cctagcgccc gctcctttcg ctttcttccc ttcctttctc     300
gccacgttcg ccggctttcc ccgtcaagct ctaaatcggg ggctcccttt agggttccga     360
tttagtgctt tacggcacct cgaccccaaa aaacttgatt agggtgatgg ttcacgtagt     420
gggccatcgc cctgatagac ggtttttcgc cctttgacgt tggagtccac gttctttaat     480
agtggactct tgttccaaac tggaacaaca ctcaacccta tctcggtcta ttcttttgat     540
ttataaggga ttttgccgat ttcggcctat tggttaaaaa atgagctgat ttaacaaaaa     600
tttaacgcga attttacana atattaacgc ttacatttcc tgatgcg                   647


<210> 8445
<211> 640
<212> DNA
<213> Homo sapiens

<400> 8445
gccctatagt gagtcgtatt acaattcact ggccgtcgtt ttacaacgtc gtgactggga      60
aaaccctggc gttacccaac ttaatcgcct tgcagcacat ccccctttcg ccagctggcg     120
taatagcgaa gaggcccgca ccgatcgccc ttcccaacag ttgcgcagcc tgaatggcga     180
atggacgcgc cctgtarcgg cgcattaagc gcggcgggtg tggtggttac gcgcagcgtg     240
accgctacac ttgccagcgc cctagcgccc gctcctttcg ctttcttccc ttsctttctc     300
gccacgttcg ccggctttcc ccgtcaagct ctaaatcggg ggctcccttt agggttccga     360
tttagtgctt tacggcacct cgaccccaaa aaacttgatt agggtgatgg ttcacgtagt     420
gggccatcgc cctgatagac ggtttttcgc cctttgacgt tggagtccac gttctttaat     480
agtggactct tgttccaaac tggaacaaca ctcaacccta tctcggtcta ttcttttgat     540
ttataasgga ttttgccgat ttcggcctat tggttaaaaa atgagctgat ttaacaaaaa     600
tttaacgcga attttaacaa aatattaacg cttacaattt                           640


<210> 8446
<211> 640
<212> DNA
<213> Homo sapiens

<400> 8446
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aaaccctggc gttacccaac ttaatcgcct tgcagcacat ccccctttcg ccagctggcg     120
taatagcgaa gaggcccgca ccgatcgccc ttcccaacag ttgcgcagcc tgaatggcga     180
atggacgcgc cctgtagcgg cgcattaagc gcggcgggtg tggtggttac gcgcagcgtg     240
accgctacac ttgccagcgc cctagcgccc gctcctttcg ctttcttccc ttcctttctc     300
gccacgttcg ccggctttcc ccgtcaagct ctaaatcggg ggctcccttt agggttccga     360
tttagtgctt tacggcacct cgaccccaaa aaacttgatt agggtgatgg ttcacgtagt     420
gggccatcgc cctgatagac ggtttttcgc cctttgacgt tggagtccac gttctttaat     480
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agtggactct tgttccaaac tggaacaaca ctcaacccta tctcggtcta ttcttttgat     540
ttataaggga ttttgccgat ttcggcctat tggttaaaaa atgagctgat ttaacaaaaa     600
tttaacgcga atcttaacaa aatattaacg cttacaattt                           640


<210> 8447
<211> 571
<212> DNA
<213> Homo sapiens

<400> 8447
gccctatagt gagtcgtatt acaattcact ggccgtcgtt ttacaacgtc gtgactggga      60
aaaccctggc gttacccaac ttaatcgcct tgcagcacat ccccctttcg ccagctggcg     120
taatagcgaa gaggcccgca ccgatcgccc ttcccaacag ttgcgcagcc tgaatggcga     180
atggacgcgc cctgtagcgg cgcattaagc gcggcgggtg tggtggttac gcgcagcgtg     240
accgctacac ttgccagcgc cctagcgccc gctcctttcg ctttcttccc ttcctttctc     300
gccacgttcg ccggctttcc ccgtcaagct ctaaatcggg ggctcccttt agggttccga     360
tttagtgctt tacggcacct cgaccccaaa aaacttgatt agggtgatgg ttcacgtagt     420
gggccatcgc cctgatagac ggtttttcgc cctttgacgt tggagtccac gttctttaat     480
agtggactct tgttccaaac tggaacaaca ctcaacccta tctcggtcta ttcttttgat     540
ttataaggga ttttgccgat ttcggcctat t                                    571


<210> 8448
<211> 640
<212> DNA
<213> Homo sapiens

<400> 8448
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aaaccctggc gttacccaac ttaatcgcct tgcagcacat ccccctttcg ccagctggcg     120
taatagcgaa gaggcccgca ccgatcgccc ttcccaacag ttgcgcagcc tgaatggcga     180
atggacgcgc cctgtagcgg cgcattaagc gcggcgggtg tggtggttac gcgcagcgtg     240
accgctacac ttgccagcgc cctagcgccc gctcctttcg ctttcttccc ttcctttctc     300
gccacgttcg ccggctttcc ccgtcaagct ctaaatcggg ggctcccttt agggttccga     360
tttagtgctt tacggcacct cgaccccaaa aaacttgatt agggtgatgg ttcacgtagt     420
gggccatcgc cctgatagac ggtttttcgc cctttgacgt tggagtccac gttctttaat     480
agtggactct tgttccaaac tggaacaaca ctcaacccta tctcggtcta ttcttttgat     540
ttataaggga ttttgccgat ttcggcctat tggttaaaaa atgagctgat ttaacaaaaa     600
tttaacgcga atttaacaa aatattaacg cttacaattt                            640


<210> 8449
<211> 639
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (552)
<223> n equals a,t,g, or c

<400> 8449
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aaaccctggc gttacccaac ttaatcgcct tgcagcacat ccccctttcg ccagctggcg     120
taatagcgaa gaggcccgca ccgatcgccc ttcccaacag ttgcgcagcc tgaatggcga     180
atggacgcgc cctgtagcgg cgcattaagc gcggcgggtg tggtggttac gcgcagcgtg     240
accgctacac ttgccagcgc cctagcgccc gctcctttcg ctttcttccc ttcctttctc     300
gccacgttcg ccggctttcc ccgtcaagct ctaaatcggg ggctcccttt agggttccga     360
tttagtgctt tacggcacct cgaccccaaa aaacttgatt agggtgatgg ttcacgtagt     420
gggccatcgc cctgatagac ggtttttcgc cctttgacgt tggagtccac gttctttaat     480
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agtggactct tgttccaaac tggaacaaca ctcaacccta tctcggtcta ttcttttgat 540
ttataaggga tnttgccgat ttcggcctat tggttaaaaa atgagctgat ttaacaaaaa 600
tttaacgcga attttaacaa aatattaacg cttacaatt 639

<210> 8450
<211> 648
<212> DNA
<213> Homo sapiens

<400> 8450
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aaaccctggc gttacccaac ttaatcgcct tgcagcacat ccccctttcg ccagctggcg 120
taatagcgaa gaggcccgca ccgatcgccc ttcccaacag ttgcgcagcc tgaatggcga 180
atggacgcgc cctgtagcgg cgcattaagc gcggcgggtg tggtggttac gcgcagcgtg 240
accgctacac ttgccagcgc cctagcgccc gctcctttcg ctttcttccc ttcctttctc 300
gccacgttcg ccggctttcc ccgtcaagct ctaaatcggg ggctcccttt agggttccga 360
tttagtgctt tacggcacct cgaccccaaa aaacttgatt agggtgatgg ttcacgtagt 420
gggccatcgc cctgatagac ggtttttcgc cctttgacgt tggagtccac gttctttaat 480
agtggactct tgttccaaac tggaacaaca ctcaacccta tctcggtcta ttcttttgat 540
ttataaggga ttttgccgat ttcggcctat tggttaaaaa atgagctgat ttaacaaaaa 600
tttaacgcga attttaacaa aatattaacg cttacaattk cctgatgc 648

<210> 8451
<211> 624
<212> DNA
<213> Homo sapiens

<400> 8451
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aaaccctggc gttacccaac ttaatcgcct tgcagcacat ccccctttcg ccagctggcg 120
taatagcgaa gaggcccgca ccgatcgccc ttcccaacag ttgcgcagcc tgaatggcga 180
atggacgcgc cctgtagcgg cgcattaagc gcggcgggtg tggtggttac gcgcagcgtg 240
accgctacac ttgccagcgc cctagcgccc gctcctttcg ctttcttccc ttcctttctc 300
gccacgttcg ccggctttcc ccgtcaagct ctaaatcggg ggctcccttt agggttccga 360
tttagtgctt tacggcacct cgaccccaaa aaacttgatt agggtgatgg ttcacgtagt 420
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agtggactct tgttccaaac tggaacaaca ctmaacccta tctcggtcta ttcttttgat 540
ttataaggga ttttgccgat ttccgcctat tggttaaaaa atgagctggt ttaacaaaaa 600
tttaacgcga attttaacaa aata 624

<210> 8452
<211> 509
<212> DNA
<213> Homo sapiens

<400> 8452
gccctatagt gagtcgtatt acaattcact ggccgtcgtt ttacaacgtc gtgactggga 60
aaaccctggc gttacccaac ttaatcgcct tgcagcacat ccccctttcg ccagctggcg 120
taatagcgaa gaggcccgca ccgatcgccc ttcccaacag ttgcgcagcc tgaatggcga 180
atggacgcgc cctgtagcgg cgcattaagc gcggcgggtg tggtggttac gcgcagcgtg 240
accgctacac ttgccagcgc cctagcgccc gctcctttcg ctttcttccc ttcctttctc 300
gccacgttcg ccggctttcc ccgtcaagct ctaaatcggg ggctcccttt agggttccga 360
tttagtgctt tacggcacct cgaccccaaa aaacttgatt agggtgatgg ttcacgtagt 420
gggccatcgc cctgatagac ggtttttcgc cctttgacgt tggagtccac gttctttaat 480
agtggactct tgttccaaac tggaacaac 509

<210> 8453

<211> 654
<212> DNA
<213> Homo sapiens

<400> 8453
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aaaccctggc gttacccaac ttaatcgcct tgcagcacat ccccctttcg ccagctggcg 120
taatagcgaa gaggcccgca ccgatcgccc ttcccaacag ttgcgcagcc tgaatggcga 180
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<212> DNA

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<213> Homo sapiens

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<212> DNA
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<212> DNA
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<211> 425
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

<400> 8488

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<213> Homo sapiens

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<211> 1577
<212> DNA
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<212> DNA
<213> Homo sapiens

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<212> DNA
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<211> 401
<212> DNA
<213> Homo sapiens

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aattacagtc aaaggggtt gttctctggt gggcaggggt gaatctcaca aagtacattc     180
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<211> 401
<212> DNA
<213> Homo sapiens

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cacaggggat gcgatggcct ggcctgggat gcgatggcct g 401

<210> 8516
<211> 401
<212> DNA
<213> Homo sapiens

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<212> DNA
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<210> 8518
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<212> DNA
<213> Homo sapiens

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<212> DNA
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<212> DNA
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<213> Homo sapiens

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ggaggcggag gttgcagtga gccaagatca caccactgta ctccagcctg ggtgacagag     180
caaaactcca tctcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa                     225


<210> 8524
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<212> DNA
<213> Homo sapiens

<400> 8524
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<210> 8540
<211> 142
<212> DNA
<213> Homo sapiens

<400> 8540

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agactctgtc tcaaaaaaac aa                                             142
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<210> 8541
<211> 319
<212> DNA
<213> Homo sapiens

<400> 8541
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ggatcatgag gtcaggagat cgagaccatc ctggctaaca cagtgaaacc ccgcctctac 120
taaaaataca aaaaattagc cgggcgtggt ggcgggcgcc tgtagtccca gctactcggg 180
aggctgaggc gggagaatgg cgtgaacccg ggaggcggag cttgcagtga gccgagatcg 240
cgccactgca ctccagcctg ggcgacagag cgagactccg tctcaaaaaa aaaaaagaaa 300
aaaaaaaaaa agagcacaa 319

<210> 8542
<211> 286
<212> DNA
<213> Homo sapiens

<400> 8542
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gcctgtagtc ccagctactc gggaggctga ggcaggagaa tggcgtgaac ccgggaggcg 180
gagcttgcag tgagccgaga tcgcgccact gcactccagc ctgggcgaca gagcgagact 240
ccgtctcaaa aaaaaaaaaa aaagaaaaga aaaaaaaaaa aaaaga 286

<210> 8543
<211> 300
<212> DNA
<213> Homo sapiens

<400> 8543
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caggagatcg agaccatccc ggctaaaatg gtgaaacccc gtctctacta aaaatacaaa 120
aaattagccg ggcgtagtgg cgggcgcctg tggtcccagc tacttgggaa gctgaggcag 180
gagaatggcg tgaacccggg aggcggagct tgcagtgagc cgagatcccg ccactgcact 240
ccagcctggg cgacagagcg agactccgtc tcaaaaaaaa aaaaaaaaaa aaacttgaga 300

<210> 8544
<211> 316
<212> DNA
<213> Homo sapiens

<400> 8544
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ccgaggcggg cggatcacga ggtcaggaga tcgagaccat cccggctaaa acggtgaaac 120
cccgtctcta ctaaaaatac aaaaaattag ccgggcgtag tggcgggcgc ctgtagtccc 180
agctacttgg gaggctgagg caggagaatg gcgtgaaccc gggaggcgga gcttgcagtg 240
agccgagatc ccgccactgc actccagcct gggcgacaga gcgagactcc gtctcaaaaa 300
aaaaaaaaaa aatttg 316

<210> 8545
<211> 170
<212> DNA
<213> Homo sapiens

<400> 8545

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gaggcggagc ttgcagtgag ccgagatccc gccactgcac tccagcctgg gcgacagagc 120
gagactccgt ctcacaaaat aaaaaaaaaa taaaataaaa taaaataaaa 170

<210> 8546
<211> 300
<212> DNA
<213> Homo sapiens

<400> 8546
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caaaaaaatt agccaggcgt ggtggctggc gcctgtagtc ccagctactc gggaggctga 180
ggcaggagaa tggcgtgaac ccgggaggcg gagcttgcag tgagccgaga tcgcgccact 240
gcactccagc ctgggcgaca gagcaagact ccgtctcaaa aaaaaaaaaa aagtgcaaac 300

<210> 8547
<211> 184
<212> DNA
<213> Homo sapiens

<400> 8547
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aacctgggag gcggagcttg cagtgagccg agatcgcgcc actgcactcc agcctgggcg 120
acagagcgag agtccgtctc aaaaaaaaaa aaaaaaaaga aaagaaaaaa gaacaaacaa 180
cagc 184

<210> 8548
<211> 147
<212> DNA
<213> Homo sapiens

<400> 8548
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gcagtgagcc gagatcgcgc cactgcactc cagcctgggc gacagagcga gactccatct 120
caaaaaaaaa aaaaaaaaaa aattgtg 147

<210> 8549
<211> 131
<212> DNA
<213> Homo sapiens

<400> 8549
ggaggctgag gcaggagaat ggcgtgaacc caggaggcgg agcttgcagt gagctgagat 60
tgcgccactg cactccagcc tgggcaacag agcgagactc cgtctgaaaa aaaaaaaaac 120
aaaaactggt g 131

<210> 8550
<211> 235
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (230)
<223> n equals a,t,g, or c

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atggcgtgaa cccgggaggc ggagcttgca gtgagccgag atcgcgccac tgcactccag 180
cctgggcgac agagcgagac tccgtctcaa aaaaaaaaa aaaaaaaan aataa 235

<210> 8551
<211> 143
<212> DNA
<213> Homo sapiens

<400> 8551
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ctcaaaaaa aaaaaaagaa atg 143

<210> 8552
<211> 170
<212> DNA
<213> Homo sapiens

<400> 8552
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tgggcgacag agcgagactc cgtctcaaaa aaaaaaaaa aaaaagactg 170

<210> 8553
<211> 135
<212> DNA
<213> Homo sapiens

<400> 8553
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gccactgcac tccagcctgg gtgacagagg gagattctgt ctcaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa gaatc 135

<210> 8554
<211> 125
<212> DNA
<213> Homo sapiens

<400> 8554
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cactgcagtc cagcctgggc gatagagcga gactctgtct caaaaaaaaa aaaaaaaaaa 120
aaatt 125

<210> 8555
<211> 183
<212> DNA
<213> Homo sapiens

<400> 8555
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tgaggcagga gaatggcgtg aacccgggag gtggagcttg cagtgagctg agatcgtgcc 120
actgcactcc agcctgggcg acagagcgag actccgtctc aaaaaaaacc cacaaacaac 180

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aaa                                                                  183

<210> 8556
<211> 319
<212> DNA
<213> Homo sapiens

<400> 8556
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ccgaggccgg cggatcacaa ggtcaggaga tcgagaccat cctggctaac atggtgaaac    120
cccgtctgta ctaaacatac aaaaagttag ccgggcatgg tggcgggcac ctgccgtccc    180
agctacttgg gaggctgagg caggagaatg gcgtgaaccc gggaggcgga gcttgcagtg    240
agccgagatg gcgccactgc actccagcct gggcgacaga gcgagactcc gtctcaaaaa    300
gaaaaagaat agaaatcta                                                 319


<210> 8557
<211> 175
<212> DNA
<213> Homo sapiens

<400> 8557
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cgtgaacccg ggaggcggag cttgcagtga gccgagattg cgccactgca ctccagcctg    120
ggcgacagag cgagactccg tctcaaaaaa aaaaaaaaaa aaaaaaaaaa atcac         175


<210> 8558
<211> 196
<212> DNA
<213> Homo sapiens

<400> 8558
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ctcgggaggc tgaggcagga gaatggcgtg aacccgggag gcggagcttg cagtgagccg    120
agatcgcgcc actgcactcc agactgggcg acagagcgag actccgtctc aaaaaaaaaa    180
aaaaaaaaaa aatgac                                                    196


<210> 8559
<211> 296
<212> DNA
<213> Homo sapiens

<400> 8559
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gaggtcagga gatcaagacc atcctggcta acacggtgaa accccgtctc tactaaaaat    120
acaaaaaatt agctgggtgt ggtggtgggt gcctgtagtc ccagctactc gggaggctga    180
ggcaggagaa tggcatgaac ccgggaggca gagcttacag tgagcctaga ttgcgccact    240
gcactccagc ctgggcaaca gagcgagact ccatctcaaa aaaaaaaaaa aaaagg        296


<210> 8560
<211> 219
<212> DNA
<213> Homo sapiens

<400> 8560
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tgctggtggg tgcctgtagt cccagctact cgggaggctg aggcaggaga atggcgtgaa    120
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cccaggaggc ggagcttgca gagagccgag atctcgccac tgcactccag cctgggcgac 180
agagcgagac tccgtctcaa aaaaaaaaga aaaaagaaa 219

<210> 8561
<211> 154
<212> DNA
<213> Homo sapiens

<400> 8561
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gcttgcagtg agccgagatc acgccactgc actccagcct gggccacaga gcgagactcc 120
gtctcaaaaa aaaaaaaaaa aaagaaagaa attg 154

<210> 8562
<211> 2548
<212> DNA
<213> Homo sapiens

<400> 8562
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actcgggagg ctgaggcagg agaatggcat gaacccggga ggcggagctt gcagtcagcc 2460
gagattgcgc cactgcactc cagcctggga aacagagtga gactccatct caaaaaaaaa 2520
aaaaaaaaaa aaaaaaaaaa aaaaattc 2548

<210> 8563
<211> 207
<212> DNA
<213> Homo sapiens

<400> 8563
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cccagctact tgggaggctg aggcaggaga atggcgtgaa cccgggaggc ggagcttgca 120
gtgagcccag atcccgccac tgcactccag cctgggcgac agagcgagac tccgtctcaa 180
aaaaaaaaaa aaaaaaaaaa gactgcg 207

<210> 8564
<211> 189
<212> DNA
<213> Homo sapiens

<400> 8564
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ggcaggagaa tggcgtgaac ccgggaggcg gagcttgcag tgagccgaga tcccgccact 120
gcactccagc ctgggcgaca gagcgagact ccgtctcaaa aaaaaaaaaa aaaaaaaaaa 180
gaaatgaca 189

<210> 8565
<211> 150
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (21)
<223> n equals a,t,g, or c

<400> 8565
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gcttgcagtg agccgagatc gcgccactgc actctagcct gggcgacaga gcgagactcc 120
gtctcaaaaa aaaaaaaaaa aaaacaactt 150

<210> 8566
<211> 162
<212> DNA
<213> Homo sapiens

<400> 8566
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agccgagatc ccgccactgc actccagcct gggcgacaga gcgagactcc gtctcaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaca aa 162

<210> 8567
<211> 301
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (98)
<223> n equals a,t,g, or c

<400> 8567
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gagaatggcg tgaacccggg aggcggagct tgcagtgagc cgagatcgtg ccactgcact 240
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g 301

<210> 8568
<211> 301
<212> DNA
<213> Homo sapiens

<400> 8568
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atacaaaaat tagccgggca tggtggcatg cacctgtagc cccagctaca cgggaggctg 180
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a 301

<210> 8569
<211> 267
<212> DNA
<213> Homo sapiens

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ggctgaggca ggagaatggc gtgaacccgg taggcggagc ttgcagtgag ccgagattgc 180
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aaaaagaaaa gaaaagaaaa gaaaaac 267

<210> 8570
<211> 246
<212> DNA
<213> Homo sapiens

<400> 8570
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ggctgaggca ggagaatggc gtgaacctgg gaggtggagc ttgcagtgag ccgagattgc 180
gccactgcac tccagcctgg gcgacagagt gagactccgt ctcaaaaaaa aaaaacaaaa 240
aaacaa 246

<210> 8571
<211> 100
<212> DNA
<213> Homo sapiens

<400> 8571
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<210> 8572
<211> 129
<212> DNA
<213> Homo sapiens

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cctgggcgac agagcgagac tccgtctcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa   120
aaacaaaga                                                           129


<210> 8573
<211> 311
<212> DNA
<213> Homo sapiens

<400> 8573
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tactaaaaat acaaaaaatt agctgggcgt ggtggcgggt gcctgtagtc ccagctactc   180
gggaggctga ggcaggagaa tggcgtgaac ccgggaggca gagcttacag tgagccgaga   240
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aaaaaaaaag t                                                        311


<210> 8574
<211> 193
<212> DNA
<213> Homo sapiens

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aggagaatgg cgtgaacccg ggaggcggag cttgcagtga gccgagatcg cgccactgca   120
ctccagcctg ggcgacagag cgagactccg tctcaaaaaa aaaaaaaaaa aaaaaaaaga   180
tcagaaaaaa ata                                                      193


<210> 8575
<211> 3991
<212> DNA
<213> Homo sapiens

<400> 8575
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agccgagatc ccgccactgc actccagcct gggcgacaga gcgagactcc gtctcaaaaa   180
aaaaaaaaaa aaaaaaaaaa aaggcgtcag ctttttatcg cacaaaattg cagatcaaaa   240
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ctgtcaggat ttaagtctat tcctttagcc gctatggcat tttactacct acaaagcaga   1080
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tggtggcggg cgcctgtagt cccagctact cgggaggctg aggcaggaga atggcgtgaa   3960
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<210> 8576
<211> 140
<212> DNA
<213> Homo sapiens

<400> 8576
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gccactgcac tccagcctgg gcgacagagc gaaactccgt ctcaaaaaaa aaaaaaaaaa      120
aaaaaaaaaa gaggggaaaa                                                  140


<210> 8577
<211> 280
<212> DNA
<213> Homo sapiens

<400> 8577
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ggctaaaacg gtgaaacccc gtctctacta aaaatacaaa aaaattagcc gggcgtagtg      120
gcgggcgcct gtagtcccag ctacttggga ggctgaggca ggagaatggc gtgaacctgg      180
gaggcggagc ttgcagtgag ccgagatccc gccactgcac tccagcctgg gcgacagagc      240
gagactccgt ctcaaaaaaa aaaaaaaaaa aaaaaatagg                            280


<210> 8578
<211> 187
<212> DNA
<213> Homo sapiens

<400> 8578
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ggctgaggca ggagaatggc gtgaacccgg gaggcggagc ttgcagtgag ccgagatcgc      120
gccactgcac tccagcctgg gcgacagagc gagactccgt ctcaaaaaaa aaaaaaaaaa      180
aaagggg                                                                187


<210> 8579
<211> 246
<212> DNA
<213> Homo sapiens

<400> 8579
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aaaatacaaa aaattagccg ggcgtagtgg cgggcgcctg tagtcccagc tactcaggag      120
gctgaggcag gagaatggcg tgaacccggg aggcggagct tgcagtgagc cgagatcccg      180
ccactgcact ccagcctggg cgacagagcg agactccgtc tcaaaaaaaa aaaaaaaaaa      240
aatgga                                                                 246


<210> 8580
<211> 153
<212> DNA
<213> Homo sapiens

<400> 8580
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gtgagccgag atcgcgccac tgcactccag cctgggcgac agagcgagac tccgtctcaa      120
aaaaaaaaaa aaaaaaaaga aagcagtggg gcc                                   153


<210> 8581
<211> 202
<212> DNA
<213> Homo sapiens

<400> 8581
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gggaggctta ggcaggagaa tggcgtgaac ccgggaggcg gagcttgcag tgagccgaga      120
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tcccgccact gcactccagc ctgggcgaca gagcgagact ccatctcaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaga aa 202

<210> 8582
<211> 275
<212> DNA
<213> Homo sapiens

<400> 8582
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gatcatcctg gctaacatgg tgaaaccccg tctctactaa aaatacaaaa aattagctgg 120
gcatggtggc gggcacctgt agtcccagct actcgggagg ctgaggcagg agaatggtgt 180
gaagctggga ggcggagctt gcagtgagcc cagattgtgc cactgcactc cagcctgggt 240
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<210> 8583
<211> 203
<212> DNA
<213> Homo sapiens

<400> 8583
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gccgagatct cgccactgca ctccagcctg ggcgacagag cgagactccg tctcaaaaaa 180
aaaaaaaaag aaagacatgt aaa 203

<210> 8584
<211> 166
<212> DNA
<213> Homo sapiens

<400> 8584
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gcgtgaaccc gggaggcgga gcttgcagtg agccgagatc aggccactgc actccagcct 120
gggcaacaga gtgagactcc gtctcaaaaa aaaaaaaaaa aagata 166

<210> 8585
<211> 190
<212> DNA
<213> Homo sapiens

<400> 8585
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aatggcgtga acccgggagg cggagcttgc agtgagccga gatcccgcca ctgcactcca 120
gcctgggcga cagagcgaga ctccgtctca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaagaaa 190

<210> 8586
<211> 2364
<212> DNA
<213> Homo sapiens

<400> 8586
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attagccggg cgtggtagcg ggcgcctgta gtcccagcta ctcgggaggc tgaggcagga 180

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<210> 8587
<211> 1367
<212> DNA
<213> Homo sapiens

<400> 8587
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tagtcccagc tactcgggag gctgaggcag tagaatggcg tgaacccggg aggcggagct 120
tgcagtgagc ggagatcgcg ccactgcact ccagcctggg cgacagagcg agactccgtc 180
tcaaaaaaaa aaaaaaaatc tttattaaat tgacaccccc cttgaacacc tgttattatg 240
aggtacgtag gttctagacc aaagctaata gaacactgca atgttgaaaa tgttctacat 300
cttcagtata gtatctaata tgatagccac tagccacatg tggctattga gcacttgaaa 360
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aaaaattagc cgggcgtgat ggtgggcgcc tgtaatccca gctactcggg aggctgaggc 1320
aagagaatgg cgtgaacccg ggaggcggag cttgcagtga gccgaga 1367

<210> 8588
<211> 261
<212> DNA
<213> Homo sapiens

<400> 8588
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taaaaataca aaaaattagc cgggcgtggt agcgggcgcc tgtagtccca gctactcggg 120
aggctgaggc aggagaatgg cgtgaacccg ggaggcggag cttgcagtga gccgagatcg 180
cgccactgca ctccagcctg ggcgacagag cgagactccg tctcaaaaaa aaaaaaaaaa 240
aaaaaagaaa aagggataaa a 261

<210> 8589
<211> 776
<212> DNA
<213> Homo sapiens

<400> 8589
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gtgcagagcc ccagagaaga cagtgagatt ctgtccctga cggtttcccc acagcctgag 120
tgatatgata ttccgactga gggaatggaa acatcagggc tggtctggct gttgctgcta 180
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atacaaaaaa ttagctgggc atgttggctg gcacctgtag tcccagctac tcgagaggct 660
gaggcaggag aatggtgtga acccgggagg cggagctttc agtgagccga gattgtgcca 720
ctgcactcca gcctgggcaa cagagcgaga ctccgtctca aaaaaaaaaa aaaaaa 776

<210> 8590
<211> 318
<212> DNA
<213> Homo sapiens

<400> 8590
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cgggcggatc acgaggtcag gagatcaaga ccatcccggc taaaaacggt gaaaccccgt 120
ctctactaaa aatacaaaaa attagctggg cgtagtggcg ggcgcctgta gtcccagcta 180
cttgggaggc tgaggcagga gaatggcgtg aacccgggag gcggagcttg cagtgagccg 240
agatcccgcc actgcactcc agcctgggcg acagagcgag actccatctc aaaaaaaaaa 300
aaaaagaaag gaaataag 318

<210> 8591
<211> 276
<212> DNA
<213> Homo sapiens

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<400> 8591
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gcacctgtag tcccagctac tcgggaggct gaggcaggag aatggcgtga acctgggagg     180
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<212> DNA
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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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ctgtctcaga aaaaaaaaga aaaaagaaaa aagaaaat                             158


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<212> DNA
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ggcgacagag cgagactccg tctcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaattgac 180
tcctaatcaa aaa 193

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<212> DNA
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<212> DNA
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aaaaaaaaaa aaaaaaacaa aaa 323

<210> 8599
<211> 310
<212> DNA
<213> Homo sapiens

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<210> 8600
<211> 253
<212> DNA
<213> Homo sapiens

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ctgtagtccc agctactcgg gaggctgagg caggagaatg ggctgaaccc aggaggcggc 180
ttgcagtgag ccgagatcgc accactgcac tccagcctgg gcgacagagc gagactccat 240
ctcaaaaaaa aaa 253

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<211> 183
<212> DNA
<213> Homo sapiens

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cactccagcc tgggcgacag agcgagactc cgtctcaaaa aaaaaaaaaa aaataataat 180
gaa 183

<210> 8602
<211> 136
<212> DNA
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<211> 260
<212> DNA
<213> Homo sapiens

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cgtctcaaaa aaaaaaaaaa 260

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<211> 279
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aaaaaaaaag gttaatatgt aa 202

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<211> 320
<212> DNA
<213> Homo sapiens

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<212> DNA
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<212> DNA
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aaaaaaaaaa aaaaaaaaat tc 322

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<212> DNA
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aaaaaaaaaa aaaaaaaatg ga 142

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<211> 123
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<213> Homo sapiens

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tta 123

<210> 8612
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<212> DNA
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<210> 8613
<211> 301
<212> DNA
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<210> 8614
<211> 214
<212> DNA
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gagccgaggt cgcgccactg cactccagcc tgggcgacag agcgagactc cgtctcaaaa 180
aaaaaaaaaa aaaaaaaaaa aagattacac aata 214

<210> 8615
<211> 243
<212> DNA
<213> Homo sapiens

<400> 8615
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att 243

<210> 8616

<211> 307
<212> DNA
<213> Homo sapiens

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aaatttc 307

<210> 8617
<211> 166
<212> DNA
<213> Homo sapiens

<400> 8617
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<210> 8618
<211> 228
<212> DNA
<213> Homo sapiens

<400> 8618
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<210> 8619
<211> 214
<212> DNA
<213> Homo sapiens

<400> 8619
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gcaaagattg ctgcctgctc cttcctctgg aagcttcgtc ccagaggggc acccagcaga 180
tgccagccag agctctcctg tatgaggtgt ctgt 214

<210> 8620
<211> 268
<212> DNA
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cagaacaggc gcttctcaca cagtaagtag caggagtgca gaggctgcag gcatgaatcc 240
agccagactg cctgggttca agtcccag 268

<210> 8621
<211> 906
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<212> DNA
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<210> 8623
<211> 131
<212> DNA
<213> Homo sapiens

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<220>
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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1455)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

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tatactaagt agagagagta gattcgtgga aaacntcntt aaactcancc aggtactgca 180
atngaaactt ctagcattng gtgattagca nntactaatn atgtactggg caaatttata 240
atcgttagta atttgcaatg gagtcttttc attctgatat taaaagtatt ttacaaacac 300
taaactttca aaatctctct tataataggt attgttaaat taattccata tttcatatgn 360
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tgtcatggca gtttaaagaa atgtctttat taaaatgagg attccaaggt aaaatcctct 600
aagtataaac atatttatat aagatattta tatttaagaa gatangtaat ttcattcaat 660
attttgtttt taatatcatg atcattaagt tacatagatt ctcttctggt aangcaaagt 720
gcaaaaaaag ccaaaattgt tatagactgt gattcaaata ctctttcata tagccnaggg 780
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ttttagtgaa cagtngtttt tttctattng taantttctn gattagnata tcancattat 960
ttatgaattg tttgttatgg taggagtata gtatcttttg gaagaattta tcttagtata 1020
tattaaccaa tgagtcaatt aagattagcc aatttcaata ttatccttaa gcagtattac 1080

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agtcgcagct acttngggag gctgaggcat ggagagtcac ttgaacccng ggaggtggag    1500
gttgcagtga gccgagatgg cgccactgca ctccagcctg ggtgacagag caagactccg    1560
tctcagaaca aaacaaaa                                                  1578


<210> 8743
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<212> DNA
<213> Homo sapiens

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tactaagtag agagagtaga ttcgtggaaa actcttaaac tcaccaggta ctgcaatgaa     180
acttctagca ttggtgatta gcatactaat atgtactggg caaatttata atcgttagta     240
atttgcaatg gagtcttttc attctgatat taaaagtatt ttacaaacac taaactttca     300
aaatctctct tataataggt attgttaaat taattccata tttcatatga aaaaacaaaa     360
gctgagggag gcaaagttac ttacctaaga ccacacagta tttaactgat ggaacctgag     420
tagttccaaa tttccgttac tcaactctaa cccgcatata aaataaaatc agtgtaatgc     480
taagaaatac tattgtacct ccaagaataa acttgacaat aaaaatattg tcatggcagt     540
ttaaagaaat gtctttatta aaatgaggat tccaaggtaa aatcctctaa gtataaacat     600
atttatataa gatatttata tttaagaaga tagtaatttc attcaatatt ttgtttttaa     660
tatcatgatc attaagttac atagattctc ttctggtaag caaagtgcaa aaaaagccaa     720
aattgttata gactgtgatt caaatactct ttcatatagc cagggtgata aactacttat     780
ttattgaact tgactgttta aatataaaaa tgattgtcct aatggagaaa gcccctaaaa     840
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ctgggcacag tgactcacac ctgtaatccc agcactttgg gaggctgagg caagtgaatc    1320
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<210> 8744
<211> 5775
<212> DNA
<213> Homo sapiens

<400> 8744
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gggtagaggc gggccggcac cccttctga cctccagtgc cgccggcctc aagatcagac     180
atggcccaga acttgaagga cttggcggga cggctgcccg ccgggccccg gggcatgggc     240
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gatcaccacc catctcccca cagtggaagg cgggcacaga gccatcttct tcaatcggat     480
cggtggagtg cagcaggaca ctatcctggc cgagggcctt cacttcaggt aatggcgggc     540
agagcctgct gaccctgacc tttcaccctt gacgccgacc cagcagtggc tatagtcgga     600
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<211> 738
<212> DNA
<213> Homo sapiens

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ttttgttttt aattagccag gcatgatggc atgcacctgt agtcccagct attcaggaga 180
ccaaggtggg aggatcattt gagcccagga atttgagact gcagtgaact atgatgatgc 240
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gactgaagtg agaggatgca ccagagcccc agaagtcaag gctgcagtga gccatgatca 660
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<211> 579
<212> DNA
<213> Homo sapiens

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<220>
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<223> n equals a,t,g, or c

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atagacttgg ctactgtgac agaggcttat aaaggtagaa atatatttat atttacttga     180
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caaaggaggc tgggaaggtg agtgactctg acctangcag ccatatgttg cacttatttt     480
tattactgca tangaaggag agaacagatt ctggggagat agccagctat ctgtcacatt     540
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<211> 1021
<212> DNA
<213> Homo sapiens

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attagtatat agacttggct actgtgacag aggcttataa aggtagaaat atatttatat     180
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tttttttgttg ttgttctgga atgagtcttg gttactgtat agtatgtatt aaaaataacc     960
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a                                                                    1021


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<211> 682
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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ggcgcctgta gtcccagcta ctcgggaggc tgaggcagga gaatggcgtg aacccgggaa     180
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<210> 8788
<211> 296
<212> DNA
<213> Homo sapiens

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gagaatggcg tgaacccggg aagcggagct tgcagtaagc cgagattgcg ccactgcagt     240
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<212> DNA
<213> Homo sapiens

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<211> 295
<212> DNA
<213> Homo sapiens

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<210> 8792
<211> 1752
<212> DNA
<213> Homo sapiens

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<211> 196
<212> DNA
<213> Homo sapiens

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<211> 196
<212> DNA
<213> Homo sapiens

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<211> 1752
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<211> 196
<212> DNA
<213> Homo sapiens

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<210> 8797
<211> 2383
<212> DNA
<213> Homo sapiens

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<212> DNA
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<212> DNA
<213> Homo sapiens

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ctttggtgag ctaggaactc ctgtgtctgg actcttccct gaatgcacca aggacccact    4140
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gggccaattt cacgttctgg cttcagagct cgacagaagc cagacttgga cagagtcatg    4440
gtgacagatt cagaaattag catggcatgt gactagcctg ggactttgct ggaatagagt    4500
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<210> 8800
<211> 576
<212> DNA
<213> Homo sapiens

<400> 8800
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ttcacataga ataaatgttt tgaagtttat gttgtgtgta tcaatggttt gtttcatttt     180
gttgttgagt attctactgt atgaatatac caaaatttgt gtgtctgttc accgattgat     240
tgacatttgg gttattacaa ctttaaagct actataaata aacctgctaa aaatgtttac     300
ataagagctt ttgcattggt atagattgtc atttctctgg agtgaatatc taagaggaga     360
atttctaggt tatatgataa gtataaccat attgttaagc attctagttg atgtgtagag     420
aaagacagga tcgaaagcaa ttaaaatgaa agaatatttc aaaagataaa agagaatata     480
gaataacatg gttataaaag ccagtggaag agtgattaag ggatggaaac tggagtttca     540
atgttagaac ttcagaaatt gaaaaaaaaa taaaaa                               576


<210> 8801
<211> 576
<212> DNA
<213> Homo sapiens

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ttcacataga ataaatgttt tgaagtttat gttgtgtgta tcaatggttt gtttcatttt     180
gttgttgagt attctactgt atgaatatac caaaatttgt gtgtctgttc accgattgat     240
tgacatttgg gttattacaa ctttaaagct actataaata aacctgctaa aaatgtttac     300
ataagagctt ttgcattggt atagattgtc atttctctgg agtgaatatc taagaggaga     360
atttctaggt tatatgataa gtataaccat attgttaagc attctagttg atgtgtagag     420
aaagacagga tcgaaagcaa ttaaaatgaa agaatatttc aaaagataaa agagaatata     480
gaataacatg gttataaaag ccagtggaag agtgattaag ggatggaaac tggagtttca     540
atgttagaac ttcagaaatt gaaaaaaaaa taaaaa                               576


<210> 8802
<211> 576
<212> DNA
<213> Homo sapiens

<400> 8802
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ttcacataga ataaatgttt tgaagtttat gttgtgtgta tcaatggttt gtttcatttt     180
gttgttgagt attctactgt atgaatatac caaaatttgt gtgtctgttc accgattgat     240
tgacatttgg gttattacaa ctttaaagct actataaata aacctgctaa aaatgtttac     300
ataagagctt ttgcattggt atagattgtc atttctctgg agtgaatatc taagaggaga     360
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atttctaggt tatatgataa gtataaccat attgttaagc attctagttg atgtgtagag 420
aaagacagga tcgaaagcaa ttaaaatgaa agaatatttc aaaagataaa agagaatata 480
gaataacatg gttataaaag ccagtggaag agtgattaag ggatggaaac tggagtttca 540
atgttagaac ttcagaaatt gaaaaaaaaa taaaaa 576

<210> 8803
<211> 1413
<212> DNA
<213> Homo sapiens

<400> 8803
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cattattaat gggagcccat tatgtgtgct gtcttatttc atcttcacaa tattcacatg 120
aaataagcat tatctgtact ttatgaataa gaaaactgag gctcaaagac ataaatgtct 180
taatcaagtc acccatctat tatcagaaag aacggggatt tgaaaatgca tcttcctaga 240
gacaaaactt gtttccatta tgccacagat tttactatgt accacggctt taaaaataat 300
aactcttagg aggacttatt tataaaagac tcctggtatt gcaggaggaa agtaaatata 360
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tgtgtgtgtt ttttttttaaa ggaaaaatac ccatagattt tctcttgcct cagtgcaaca 480
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taccggctga taccaccgca tgaggtgcat aattaagtga tgtggtggca agaccagatt 600
cattatcgta gacggtcatg tgccctgcca tgacattttg gtcagggaca gactgcatat 660
acagtggtgt gcccataaga ttataatgga gctcagctaa aaattcctat tcttggtgac 720
atcatagccg tcataacacc gtagtgcaac acattacttt ttctatgttt aggtaagttt 780
ctatacacaa atacttacca ctgttttgcc gttgcctaac atattcagta cagtagcata 840
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gatatctaaa taaattaaga ttcactaatg actctagtgg cttttaatgc catgagatat 1140
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agatatatga tgtgttactc tctttgacta tttgtataat tttgtttttt aaagatacat 1320
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ctgcctatag aaattccaaa agaagaaaaa taa 1413

<210> 8804
<211> 1414
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1413)
<223> n equals a,t,g, or c

<400> 8804
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cattattaat gggagcccat tatgtgtgct gtcttatttc atcttcacaa tattcacatg 120
aaataagcat tatctgtact ttatgaataa gaaaactgag gctcaaagac ataaatgtct 180
taatcaagtc acccatctat tatcagaaag aacggggatt tgaaaatgca tcttcctaga 240
gacaaaactt gtttccatta tgccacagat tttactatgt accacggctt taaaaataat 300
aactcttagg aggacttatt tataaaagac tcctggtatt gcaggaggaa agtaaatata 360
ttttcatgac tctgcatcta actctgggtt ctttccttaa ttccattgtg tgtgtgtgtg 420
tgtgtgtgtt ttttttttaaa ggaaaaatac ccatagattt tctcttgcct cagtgcaaca 480
ttgcagatga tccctagtga tgacctttcc caaagttaca ttgtagaatt cattggctaa 540
taccggctga taccaccgca tgaggtgcat aattaagtga tgtggtggca agaccagatt 600
cattatcgta gacggtcatg tgccctgcca tgacattttg gtcagggaca gactgcatat 660
acagtggtgt gcccataaga ttataatgga gctcagctaa aaattcctat tcttggtgac 720

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atcatagccg tcataacacc gtagtgcaac acattacttt ttctatgttt aggtaagttt     780
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ttcatatcct ccttcttaag caatgcatga gtatctcttc tgttcttatg ctttcctctt    1020
ccaggaaata gatataagtt gtgtcctagc aacaattttt tgcttcacat aatatctaaa    1080
gatatctaaa taaattaaga ttcactaatg actctagtgg cttttaatgc catgagatat    1140
tcctactagt tctttctgtc attggattat tttcattatg tacattagaa atgaataaaa    1200
attacttcct tattttacac taatactaat aaatgcctct gatttttttag agaactgtaa   1260
cagatatatg atgtgttact ctctttgact atttgcataa ttactgtttt taaagataca    1320
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actgcctata gaaattccaa aagaagaaaa atna                                1414


<210> 8805
<211> 1413
<212> DNA
<213> Homo sapiens

<400> 8805
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aaataagcat tatctgtact ttatgaataa gaaaactgag gctcaaagac ataaatgtct     180
taatcaagtc acccatctat tatcagaaag aacggggatt tgaaaatgca tcttcctaga     240
gacaaaactt gtttccatta tgccacagat tttactatgt accacggctt taaaaataat     300
aactcttagg aggacttatt tataaaagac tcctggtatt gcaggaggaa agtaaatata     360
ttttcatgac tctgcatcta actctgggtt ctttccttaa ttccattgtg tgtgtgtgtg     420
tgtgtgtgtt tttttttaaa ggaaaaatac ccatagattt tctcttgcct cagtgcaaca     480
ttgcagatga tccctagtga tgacctttcc caaagttaca ttgtagaatt cattggctaa     540
taccggctga taccaccgca tgaggtgcat aattaagtga tgtggtggca agaccagatt     600
cattatcgta gacggtcatg tgccctgcca tgacattttg gtcagggaca gactgcatat     660
acagtggtgt gcccataaga ttataatgga gctcagctaa aaattcctat tcttggtgac     720
atcatagccg tcataacacc gtagtgcaac acattacttt ttctatgttt aggtaagttt     780
ctatacacaa atacttacca ctgttttgcc gttgcctaac atattcagta cagtagcata     840
ctgtacaggt ttgcaacagg ctataccaca ccgcctaggt atgtagtagg ctgtaccatc     900
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ttcatatcct ccttcttaag caatgcatga gtatctcttc tgttcttatg ctttcctctt    1020
ccaggaaata gatataagtt gtgtcctagc aacaattttt tgcttcacat aatatctaaa    1080
gatatctaaa taaattaaga ttcactaatg actctagtgg cttttaatgc catgagatat    1140
tcctactagt tctttctgtc attggtttat tttcattatg tagattagaa atgaataaaa    1200
attacttcct tattttacac taatactaat aaatgcctct gattttttaga gaactgtaat    1260
agatatatga tgtgttactc tctttgacta tttgtataat tttgtttttt aaagatacat    1320
ctagattaaa aactactgtt gtaagctgtt gaaatcttcc atatggccaa aattctgtca    1380
ctgcctatag aaattccaaa agaagaaaaa taa                                 1413


<210> 8806
<211> 729
<212> DNA
<213> Homo sapiens

<400> 8806
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agaagttggg ttggcaacat tgcttgggtg atttccttgc taacattgta ctgtaaggtg     120
tgagggcctt tgcattagac tctgactggg ctctgtaaac ctgagcctca ttcttagaac     180
ctcttgagcc ccttgatgtt gcccagtcaa gtccatagtg actgtagggg ctgaacttca     240
agggccactt ttgcttatag ccatcacctg agagcacctc cagaatcaaa tggccttggg     300
aagtacttgc cccagagaga gttttaaaaa ttattctgtc aatctgactc aattccttgt     360
agatagttca tttccaggca tgtattttct tggagtttgt taaaaacaat ggaaaaatct     420
tatcttaaaa gtacctcttg ggccgggtgc ggtggctcac gtctataatc ccagcacttt     480
ggaaggctga ggtgggcaaa tcacctgagg tcaggagtgt aagaccagtc tgaccaacgt     540
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ggtgaaaccc tgtctctaca aaaatacaaa aattaaccag gcatgatggc aggtgcctgt      600
aatcccagct acttgggagg ctgagatggg agaattgttt gaacctgctg cattccagcc      660
tgggcaacag agtgggactc aaaaaaaaaa aaaaaaaaaa aaaaacctcc ctaaaatgc       720
aactcaaag                                                              729


<210> 8807
<211> 732
<212> DNA
<213> Homo sapiens

<400> 8807
ctggaaccaa caagaaaacc ttaatatgga actgcaatga tgggaatttg gggcattgaa       60
agaagttggg ttggcaacat tgcttgggtg atttccttgc taacattgta ctgtaaggtg      120
tgagggcctt tgcattagac tctgactggg ctctgtaaac ctgagcctca ttcttagaac      180
ctcttgagcc ccttgatgtt gcccagtcaa gtccatagtg actgtagggg ctgaacttca      240
agggccactt ttgcttatag ccatcacctg agagcacctc cagaatcaaa atggccttgg      300
gaagtacttg ccccagagag agttttaaaa attattctgt caatctgact caattccttg      360
tagatagttc atttccaggc atgtattttc ttggagtttg ttaaaaacaa tggaaaaatc      420
ttatcttaaa agtacctctt gggccgggtg cggtggctca cgtctataat cccagcactt      480
tggaaggctg aggtgggcaa atcacctgag gtcaggagtg taagaccagt ctgaccaacg      540
tggtgaaacc ctgtctctac aaaaatacaa aaattaacca ggcatgatgg caggtgcctg      600
taatcccagc tacttgggag gctgagatgg gagaattgtt tgaacctgct gcattccagc      660
ctgggcaaca gagtgggact caaaaaaaaa aaaaaaaaaa aaaaaaaacc tccctaaaaa      720
tgcaactcaa ag                                                          732


<210> 8808
<211> 730
<212> DNA
<213> Homo sapiens

<400> 8808
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agaagttggg ttggcaacat tgcttgggtg atttccttgc taacattgta ctgtaaggtg      120
tgagggcctt tgcattagac tgactgggct ctgtaaacct gagcctcatt cttagaacct      180
cttgagcccc ttgatgttgc ccagtcaagt ccatagtgac tgtaggggct gaacttcaag      240
ggccactttt gcttatagcc atcacctgag agcacctcca gaatcaaaat ggccttggga      300
agtacttgcc ccagagagag ttttaaaaat tattctgtca atctgactca attccttgta      360
gatagttcat ttccaggcat gtattttctt ggagtttgtt aaaaacaatg gaaaaatctt      420
atcttaaaag tacctcttgg gccgggtgcg gtggctcacg tctataatcc cagcactttg      480
gaaggctgag gtgggcaaat cacctgaggt caggagtgta agaccagtct gaccaacgtg      540
gtgaaaccct gtctctacaa aaatacaaaa attaaccagg catgatggca ggtgcctgta      600
atcccagcta cttgggaggc tgagatggga gaattgtttg aacctgctgc attccagcct      660
gggcaacaga gtgggactcc aaaaaaaaaa aaaaaaaaaa aaaaaccctc cctaaaaatg      720
caactcaaag                                                             730


<210> 8809
<211> 459
<212> DNA
<213> Homo sapiens

<400> 8809
tgggtcagac agaggacttt attattcaca gtggtaacag tagtcatgat atcagcattt       60
gtttttgca ccagttcttc aagccctgat tctcacagag cgacttgcag aaggccagtt      120
gtgcacacac agtgggttgc attgcaggaa aggaaccctg aatataaggt acccgaatct      180
cttatactgg actgcaagca tgcctgcttt ttgttcttaa gggagatgct gtctctgtct      240
tccaagtctg taagcatacc tgccctttgc tctggaggaa gacactattc tctaagtcta      300
ttcactataa aaatatcctt gtaatgatag tccagaacaa agatagtcat tgcctctgct      360
taaatcatgt acagaattgc aagagaccca cggagaatta tctaccaaca atatgcatca      420
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tagaaattta gaaaacagaa gaaaagtcac tacagtcct                           459


<210> 8810
<211> 1025
<212> DNA
<213> Homo sapiens

<400> 8810
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cccgcgccca tgatgtaagt ccccccagat gctttccacc atcctgtcct ttgtctgtaa     120
ttgcgcttgt cgcttgaaca gaatcctaat tgtgctgatt acatgtttaa ttttggtctc     180
ccctgtaaga caggcatgct tttggaggc agggactgaa tgtcattcac atctgtgctc      240
ctagggtcta atacatgatg gtgcattgta agtattcagt atataacttg ttgaataaat     300
ggatcgggtt tagcattttc ccccattgga cctggattga cctggaaatt ggtggactga     360
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agtgcagtaa gggagggagt cgttgatgtt gttttggttc gtagtgcaga ataaagctac     480
ttatggaaat atacgactcc tactcttagt ttctgctttg atgtggttac tgctgttgtt     540
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aacagctgag tttttgctgt tttcaaagtt agccaaaaat tccattttca tgtttaaatg     660
atttagaaaa atcatttttc tttaaaaaat aacagtacat aaaaagaaaa cattctcggc     720
tgggcgcggt ggctcacgcc tgtaacccag cactttggga ggctgagaca ggcagttcac     780
ctgaggtcag gagtttgaga ccagcctgac caacatggag aaactccgtc tctactaaaa     840
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tgaggcagga gaatcgcttg aacccgggag gcagaggttg cagtgagccg agatcgtgtc     960
attgcactcc agcctgggca acaagagcga aactccatct caaaaaataa aaaataaata    1020
aaaaa                                                                1025


<210> 8811
<211> 459
<212> DNA
<213> Homo sapiens

<400> 8811
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gtttttttgca ccagttcttc aagccctgat tctcacagag cgacttgcag aaggccagtt    120
gtgcacacac agtgggttgc attgcaggaa aggaaccctg aatataaggt acccgaatct     180
cttatactgg actgcaagca tgcctgcttt ttgttcttaa gggagatgct gtctctgtct     240
tccaagtctg taagcatacc tgccctttgc tctggaggaa gacactattc tctaagtcta     300
ttcactataa aaatatcctt gtaatgatag tccagaacaa agatagtcat tgcctctgct     360
taaatcatgt acagaattgc aagagaccca cggagaatta tctaccaaca atatgcatca     420
tagaaattta gaaaacagaa gaaaagtcac tacagtcct                           459


<210> 8812
<211> 1024
<212> DNA
<213> Homo sapiens

<400> 8812
gtgaatcccc agctgaggtc gtgcttaagt gccacctgct caagagagaa ggcttcctgc      60
ccgcgcccat gatgtaagtc cccccagatg ctttccacca tcctgtcctt tgtctgtaat     120
tgcgcttgtc gcttgaacag aatcctaatt gtgctgatta catgtttaat tttggtctcc     180
cctgtaagac aggcatgctt tttggaggca gggactgaat gtcattcaca tctgtgctcc     240
tagggtctaa tacatgatgg tgcattgtaa gtattcagta tataacttgt tgaataaatg     300
gatcgggttt agcattttcc cccattggac ctggattgac ctggaaattg gtggactgaa     360
cctgcaagta gagattaaag gacctaacaa ctgtagagtg gctggtgaag gtagatataa     420
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tatggaaata tacgactcct actcttagtt tctgctttga tgtggttact gctgttgttt     540
agcgtaagca tataaacaaa tcactggctt agtgggttaa tttttcttct cttttgttaa     600
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acagctgagt ttttgctgtt ttcaaagtta gccaaaaatt ccattttcat gtttaaatga 660
tttagaaaaa tcatttttct ttaaaaaata acagtacata aaaagaaaac attctcggct 720
gggcgcggtg gctcacgcct gtaacccagc actttgggag gctgagacag gcagttcacc 780
tgaggtcagg agtttgagac cagcctgacc aacatggaga aactccgtct ctactaaaaa 840
cacaaaaatt ttagccgggc gttgtgccac gttcctgtaa tcccagctac tcgggaggct 900
gaggcaggag aatcgcttga acccgggagg cagaggttgc agtgagccga gatcgtgtca 960
ttgcactcca gcctgggcaa caagagcgaa actccatctc aaaaaataaa aaataaataa 1020
aaaa 1024

<210> 8813
<211> 459
<212> DNA
<213> Homo sapiens

<400> 8813
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gtttttgca ccagttcttc aagccctgat tctcacagag cgacttgcag aaggccagtt 120
gtgcacacac agtgggttgc attgcaggaa aggaaccctg aatataaggt acccgaatct 180
cttatactgg actgcaagca tgcctgcttt ttgttcttaa gggagatgct gtctctgtct 240
tccaagtctg taagcatacc tgccctttgc tctggaggaa gacactattc tctaagtcta 300
ttcactataa aaatatcctt gtaatgatag tccagaacaa agatagtcat tgcctctgct 360
taaatcatgt acagaattgc aagagaccca cggagaatta tctaccaaca atatgcatca 420
tagaaattta gaaaacagaa gaaaagtcac tacagtcct 459

<210> 8814
<211> 1025
<212> DNA
<213> Homo sapiens

<400> 8814
gtgaatcccc agcctgaggt cgtgcttaag tgccacctgc tcaagagaga aggcttcctg 60
cccgcgccca tgatgtaagt cccccagat gctttccacc atcctgtcct ttgtctgtaa 120
ttgcgcttgt cgcttgaaca gaatcctaat tgtgctgatt acatgtttaa ttttggtctc 180
ccctgtaaga caggcatgct tttggaggc agggactgaa tgtcattcac atctgtgctc 240
ctagggtcta atacatgatg gtgcattgta agtattcagt atataacttg ttgaataaat 300
ggatcgggtt tagcatttc ccccattgga cctggattga cctggaaatt ggtggactga 360
acctgcaagt agagattaaa ggacctaaca actatagagt ggctggtgaa ggtagatata 420
agtgcagtaa gggagggagt cgttgatgtt gttttggttc gtagtgcaga ataaagctac 480
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ccacacggtg gcagttctcc tgcctagcca gctgccactg gactctctcc cctgtatata     660
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<210> 8897
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<211> 618
<212> DNA
<213> Homo sapiens

<400> 8897
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accatttgaa ctagggtgag atgacatctc attgtagttt tgatttgcat ttgtctgatg 180
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ttgtagctcc cagtgttgga ggtggggtct gctggagggt ggttggattt ctcatgaatg 300
gtttcatact gtcctcttgg tgctgttctt gtgatagtga gtgagttctc atgagatttg 360
gttatttaaa agcgtacagc acctccccgc tcactctctc ttgctcctgc ttccgccatc 420
taagatgcct tactccctct ttgctttctg ccatgattgg cagtttcttg aggcctctcc 480
agaagcagaa gctgctatgc ttcctataca gcctacaaaa ctgtaagcca attaaaactc 540
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tacaagtctc aggtattt 618

<210> 8898
<211> 614
<212> DNA
<213> Homo sapiens

<400> 8898
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gccatttgaa ctagggtgag atgacatctt attgtagttt tgatttgcat ttctctgatg 180
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ttgtagctcc caatgttgga ggtggggtct gctggagggt ggttggattt ctcatgaata 300
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gcagaagctg ctgtgcttcc tgtacagcct acaaaactgt aagccaatta aaactctttt 540
ctttataaat tacccagtct caggtatttc tttatagcag cgtgagaatg gattaataca 600
agtctcaggt attt 614

<210> 8899
<211> 614
<212> DNA
<213> Homo sapiens

<400> 8899
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gccatttgaa ctagggtgag atgacatctt attgtagttt tgatttgcat ttctctgatg 180
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ttgtagctcc caatgttgga ggtggggtct gctggagggt ggttggattt ctcatgaata 300
gtttcatact gtcctcttgg tgctgttctt gtgatagtga gttctcatga gatttggtta 360
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gcagaagctg ctgtgcttcc tgtacagcct acaaaactgt aagccaatta aaactctttt 540
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agtctcaggt attt 614

<210> 8900
<211> 436
<212> DNA
<213> Homo sapiens

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<400> 8900
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aatgtgtaat aatcgaataa aagaaattcg gatatccata acttcaggca tttatcattt     180
ctttgtatta ggcacattcc aattccactc tcagttattt tgaaatatac taaaaatcat     240
tgttaactac attcacccta ttgtgctacc aaacactaga tcttattctt tccatataac     300
tgtatttttg tacccattaa ccatctcctt tttatcctcc cttctccact acccttttta     360
gcttctgcta accatcatta tacctctacc tccatgagtt caattttttt tggctctccc     420
ataggagtga gaacat                                                     436


<210> 8901
<211> 436
<212> DNA
<213> Homo sapiens

<400> 8901
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tttctttcat gaaagttgta ctatttatgg agtacatgtg atgttttgac acatagacaa     120
aatgtgtaat aatcgaatca aagaaattcg gatatccata acttcaggca tttatcattt     180
ctctgtatta ggcacattcc aattccactc tcagttattt tgaaatatac tataaatcat     240
tgttaactac attcacccta ttgtgctacc aaacactaga tcttattctt tccatataac     300
tgtatttttg tacccattaa ccatctcctt tttatcctcc cttctccact acccttttta     360
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<210> 8902
<211> 436
<212> DNA
<213> Homo sapiens

<400> 8902
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tttctttcat gaaagttgta ctatttatgg agtacatgtg atgttttgac acatagacaa     120
aatgtgtaat aatcgaatca aagaaattcg gatatccata acttcaggca tttatcattt     180
ctctgtatta ggcacattcc aattccactc tcagttattt tgaaatatac tataaatcat     240
tgttaactac attcacccta ttgtgctacc aaacactaga tcttattctt tccatataac     300
tgtatttttg tacccattaa ccatctcctt tttatcctcc cttctccact acccttttta     360
gcttctgcta accatcatta tacctctacc tccatgagtt caattttttt tagctgtccc     420
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<210> 8903
<211> 1311
<212> DNA
<213> Homo sapiens

<400> 8903
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attttcactt tgaaaagtag aaacatgaca gtatagtttc cactgcctat ccaatatgaa     120
cttctggcat tcttgttatc ttctcaggaa ctgcactgtt tgcttcttgt gttcaatttt     180
tttttttttc cagggatgag gatgtatctc tcctcctgaa actttcactc taaaatatgc     240
ccccaaatac tgacattttc aagcttgtgc tttttttactt gatatctgat tttttttaaa     300
tttttattta atagggagaa ggtcatgact tatggaattt actctaagga tagggatctg     360
agcaggttcc tgagtacttg aaaggcttta tttacctctt acactttttt gttacatcca     420
ggtttttgct catttctcta tcatttgtgt cttgaacttt acctgaaatg catgtcttga     480
gtgcctacta aggtccaggc attgtgctgg cagatttgat atatttttgt ttattcctta     540
ttacaggact attacatagt agactctcat tctgacactc actttttttt tccagaaaaa     600
aaaattaatg gagattgatt gctaatgggt acagggctgc ttttaaggct atgaaaatgc     660
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atatactttc tttttcttc gttttgcagc ttttgctcaa aggagaatta gatatttaaa 780
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taaagcttag agaagtataa tatcttgttc aatatgacac tacctggtaa agcttttgtc 900
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aggcatgata atcacttgaa cctgggaggc agaggttgca gcgagtcaag attgcaccac 1260
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<210> 8904
<211> 1311
<212> DNA
<213> Homo sapiens

<400> 8904
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attttcactt tgaaaagtag aaacatgaca gtatagtttc cactgcctat ccaatatgaa 120
cttctggcat tcttgttatc ttctcaggaa ctgcactgtt tgcttcttgt gttcaatttt 180
tttttttttc cagggatgag gatgtatctc tcctcctgaa actttcactc taaaatatgc 240
ccccaaatac tgacattttc aagcttgtgc ttttttactt gatatctgat tttttttaaa 300
tttttattta atagggagaa ggtcatgact tatggaattt actctaagga tagggatctg 360
agcaggttcc tgagtacttg aaaggcttta tttacctctt acactttttt gttacatcca 420
ggtttttgct catttctcta tcatttgtgt cttgaacttt acctgaaatg catgtcttga 480
gtgcctacta aggtccaggc attgtgctgg cagatttgat atatttttgt ttattcctta 540
ttacaggact attacatagt agactctcat tctgacactc actttttttt tccagaaaaa 600
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tctaaaatta gtttgtggtg atggttgcac atctctgaac gtactaaaat acattgaatt 720
atatactttc tttttcttc gttttgcagc ttttgctcaa aggagaatta gatatttaaa 780
atgagtgaat tgtatggtac atgaattaga tctcaataaa actattttaa aaaaagaaac 840
taaagcttag agaagtataa tatcttgttc aatatgacac tacctggtaa agcttttgtc 900
caaatttttc tgagaccaaa gctattcttt cttccactga cgcatgctat ctctactaat 960
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aggcatgata atcacttgaa cctgggaggc agaggttgca gcgagtcaag attgcaccac 1260
tgcactccag cctgggcaac agagtgagac tccgtctcaa aaaaaaaaaa a 1311

<210> 8905
<211> 611
<212> DNA
<213> Homo sapiens

<400> 8905
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agcgtaaaga tagttatgtt gacatattta aatatatgtt gctgctgctg tatttttaaa 120
aaacataaat gatactttat tataaatatt actctagtgt ttgtttttttg tacataatat 180
gtgctggaaa ttttttttatg tcagtatgtc attcatatta ttattgttat tataaaaata 240
ctacatgcac aaggaaataa aaattgaaag atttaaaatg gaaagttgag gaagatctaa 300
aatggaaagt gaaaaactcc acctatcccc aagttccatc ccttagaggt aactgctttt 360
cactgtattt gcgttttatt ctttgattac ctccctaacc cttaaacata tatatacttg 420
tacttttatt tctttaataa ctttaagcat tcttggttgt tgatcagtta agaatgacag 480
aaacaggcag attgctggag cccggaagtt tgagtccagc ctgggcaaca tggcaaaact 540
ctgtctctac aaaaaataca aaaaaaaaaa aaaaaaaagc caggtaagcc aggtatggtg 600
gcaaacaccc g 611

<210> 8906
<211> 611
<212> DNA
<213> Homo sapiens

<400> 8906
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agcgtaaaga tagttatgtt gacatattta aatatatgtt gctgctgctg tatttttaaa 120
aaacataaat gatactttat tataaatatt actctagtgt ttgtttttttg tacataatat 180
gtgctggaaa tttttttatg tcagtatgtc attcatatta ttattgttat tataaaaata 240
ctacatgcac aaggaaataa aaattgaaag atttaaaatg gaaagttgag gaagatctaa 300
aatggaaagt gaaaaactcc acctatcccc aagttccatc ccttagaggt aactgctttt 360
cactgtattt gcgttttatt ctttgattac ctccctaacc cttaaacata tatatacttg 420
tacttttatt tctttaataa ctttaagcat tcttggttgt tgatcagtta agaatgacag 480
aaacaggcag attgctggag cccggaagtt tgagtccagc ctgggcaaca tggcaaaact 540
ctgtctctac aaaaaataca aaaaaaaaaa aaaaaaaagc caggtaagcc aggtatggtg 600
gcaaacaccc g 611

<210> 8907
<211> 295
<212> DNA
<213> Homo sapiens

<400> 8907
actactggcc gggtgcggtg gctcacgcct gtaatcccag cactttggga ggctgaggcg 60
ggcggatcat gaggtcagga gatcgagacc atcctggcta acacggtgaa accccgtctc 120
tactaaaaat acaaaaaatt agccaggcgc ggtggcaggc ccctgggaga ggctgaggca 180
ggagaatggc gtgcacccgg gaggtggagc tttcagtgag ctgagattat gccactgcac 240
tccagcctgg gcgacagagc cagactccgt ctcaaaaaaa aaaaaaaaaa aagaa 295

<210> 8908
<211> 200
<212> DNA
<213> Homo sapiens

<400> 8908
cccagcactt tgggaggccg aggcgggcgg atcacgaggt caggagatcg agaccatcct 60
ggctaacaag gtgaaactcc gtcactacta aaaatataaa aaattggccg ggagtggtgg 120
cgggtgcctg tggtcccagc tactcgggag gctgaggcag gagaatggcg tgaacccggg 180
aagcggagct ggcagtgagc 200

<210> 8909
<211> 303
<212> DNA
<213> Homo sapiens

<400> 8909
tctggccggg cgccgtggct cacgcctgta atcccagcac tttgggaggc cgaggcaggc 60
ggatcatgag gtcaggagat tgagaccatc ctggctaaca cggtgaaacc ctgtctctac 120
taaaaataca aaaaattagc agggcgtggt ggcaggcacc tgtagtccca gctactcagg 180
aggttgaggc aggagaatgg cgtgaaccag ggaggtggag cttgcagtga gccgagatcg 240
caccacggca ctccagcctg gatgacagag caagactccg tctcaaaaaa aaaaaaaaaa 300
aag 303

<210> 8910
<211> 305
<212> DNA

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<213> Homo sapiens

<400> 8910
ttaccggcca ggcgtggtgg ctcacgcctg taatcccagc actttgggag gccgaggcgg      60
gcagatcacg aggtcaggag atcgagacca tcctggctaa catggtgaaa ccccgtctct     120
actaaaaata caaaaaatta gcctggtgtg gtggcgggca cctgcagtcc cagctactcg     180
gaaggctgag gcaggagaat ggcgggaacc caggaggcga aggctgcagt gagctgagat     240
cgcgccactg cactccagcc tgggcgacag agcgagactc catctcaaaa aaaaaaaaaa     300
agaaa                                                                 305


<210> 8911
<211> 326
<212> DNA
<213> Homo sapiens

<400> 8911
atgaaatagg ccgggcgcgg tggctcacgc ctgtaatccc agcactttgg gaggccgagg      60
cgggtggatc atgaggtcag gagatcgaga ccatcctggc taacaaggag aaaccccgtc     120
tctactaaaa atacaaaaaa ttagccgggc gcggtggcgg gcgcctgtag tcccagctac     180
tggggaggct gaggcaggag aatggcgtga acccgggaag cggagcttgc agtgagccga     240
gattgcacca ctgcagtccg cagtcgggcc tgggcgacag agcgagactc cgtctcaaaa     300
aaaaaaaaaa aaaaagaatg aaataa                                          326


<210> 8912
<211> 319
<212> DNA
<213> Homo sapiens

<400> 8912
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ggatcatgag gtcaggagat cgagaccatc ctggctaaca cagtgaaacc ccgcctctac     120
taaaaataca aaaaattagc cgggcgtggt ggcgggcgcc tgtagtccca gctactcggg     180
aggctgaggc gggagaatgg cgtgaacccg ggaggcggag cttgcagtga gccgagatcg     240
cgccactgca ctccagcctg ggcgacagag cgagactccg tctcaaaaaa aaaaaagaaa     300
aaaaaaaaaa agagcacaa                                                  319


<210> 8913
<211> 163
<212> DNA
<213> Homo sapiens

<400> 8913
ctgggcgtgg tggctcacgc ctgtaatcct agcactttgg gaggccaagg caggtggatc      60
acgaggccag gagatcgaga ccatcctggc taacatggtg aaaccccgtc tctactaaaa     120
atacaaaaat tagctgggca tggtggtgtg tgcctgtaac ccc                      163


<210> 8914
<211> 316
<212> DNA
<213> Homo sapiens

<400> 8914
gaattcttgg ccgggcacgg tggctcacgc ctgtaatccc agcactttgg gaggccgagg      60
cgggcggatc acgaggtcag gagatcgaga ccatcctggc taacacggtg aaaccccgtc     120
tctactaaaa atacaaaaaa ttagccgggc gtggtagcgg gcgcctgtag tcccagctac     180
tcgggaggct gaggcaggag aatggcgtga acctggcagg cggagcttgc agtgagccga     240
gatcgcgcca ctgcactcca gcctgggtga cagagcgaga ctccgtctca aaaaaaaaaa     300
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aaaaaaaaaa gaattc 316

<210> 8915
<211> 305
<212> DNA
<213> Homo sapiens

<400> 8915
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gaggtcagga gatcgagacc atcccagcta aaacggtgaa accccgtctc tactaaaaat 120
acaaaaaatt agccgggcgt agtggcgggc acctgtagtc ccagctactt gggaggctga 180
ggcaggagaa tggcgtgaac ccgggaggcg gagcttgcag tgagccgaga tcccgccact 240
gcactccagc ctgggcgaca gagcgagact ccgtctcaaa aaaaaaaaaa aaaaaaaaaa 300
agaaa 305

<210> 8916
<211> 300
<212> DNA
<213> Homo sapiens

<400> 8916
cggtggctca cgcctgtaat cccagcactt tgggaggccg aggcgggcgg atcacgaggt 60
caggagatcg agaccatccc ggctaaaatg gtgaaacccc gtctctacta aaaatacaaa 120
aaattagccg ggcgtagtgg cgggcgcctg tggtcccagc tacttgggaa gctgaggcag 180
gagaatggcg tgaacccggg aggcggagct tgcagtgagc cgagatcccg ccactgcact 240
ccagcctggg cgacagagcg agactccgtc tcaaaaaaaa aaaaaaaaaa aaacttgaga 300

<210> 8917
<211> 316
<212> DNA
<213> Homo sapiens

<400> 8917
aatttgttca attcggccgg gcgcggtggc tcacgcctgt aatcccagca ctttgggagg 60
ccgaggcggg cggatcacga ggtcaggaga tcgagaccat cccggctaaa acggtgaaac 120
cccgtctcta ctaaaaatac aaaaaattag ccgggcgtag tggcgggcgc ctgtagtccc 180
agctacttgg gaggctgagg caggagaatg gcgtgaaccc gggaggcgga gcttgcagtg 240
agccgagatc ccgccactgc actccagcct gggcgacaga gcgagactcc gtctcaaaaa 300
aaaaaaaaaa aatttg 316

<210> 8918
<211> 157
<212> DNA
<213> Homo sapiens

<400> 8918
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aggagatcga gaccatcctg gctaacacgg tgaaaccccg tctctactaa aaatacaaaa 120
aaattagccg ggcatggtgg caggtgcctg tcgtccc 157

<210> 8919
<211> 283
<212> DNA
<213> Homo sapiens

<400> 8919

cgcctgtaat cccagcactt tggaaggccg aggcggccgg atcacgaggt caggagatca 60
agaccatcct ggctaacacg gtgaaacccc gtctctacta aaaatacaaa aaattagcca 120
ggcgtggtgg cgggggcctg tagtcccagc tactcgggag actgaggcag gagaatggcg 180
tgaacccggg aggtggagcc tgcagtgagc cgagatcgcg ccactgcact ccagcctggg 240
cgacagagcc agactccatc tcaaaaaaaa aaaaaaaaaa aaa 283

<210> 8920
<211> 1052
<212> DNA
<213> Homo sapiens

<400> 8920
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tcgagaccat cctggctaac acggtgaaac cccgtctcta ctaaaaatac aaaaaattag 120
ccgggcatgg tggcaggcgc ctgtggtccc agttacccag gaggctgagg caggagaatg 180
gcgtgaaccc gggaggcgga gcttgcagtg agccgagatc gagccactgc actccagcct 240
gggcaacaga gctagactcc gtctcaaaaa aaaaaaaaaa ttattgttta tatttgagat 300
gagaattctt gatacatttt ttggtatatt aaaaagtgag ataaattgtt tgtgctttaa 360
catgtaaatt gcatcgtaga ttcataaaat tcatcttgga tttatttcta gcacagtact 420
ttctattgaa agcagtttac tatcaagaaa atctatcaaa ggggatggaa tcccattctt 480
cattttcatg aattgtttta aaaagtgttc ttctggccag ggtcggtggc tcacacctgt 540
aatcccagca ctttgggagg tcgaggtggg tggatcacga ggtcaggaga tcgagaccat 600
cctggccaac atggtgaaac ctcgtctctg ctaaaaatac aaaaatttgc tgggtgtgac 660
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ggaggcggag gctgcagtga accaagatcg tgccgctgca ctccagcctg gcaacagagc 780
cagactccgt ctggaaaaaa aaacaaaaca aaaaacaatg ccgggcgcgg tggctcacgc 840
ctgtaatccc agcactttgg gaggccgagg caggcggatc acgaggtcag gagatcgaga 900
ccatcctggc taacacggtg aaaccctgtc tctactaaaa atacaaaaaa ttagccgggc 960
gtggtggcag gcgcctgtag tcccagctac tcgggaggct gaggcaggag aatggcatga 1020
acccgggagg cggaacttgc agtgagccga ga 1052

<210> 8921
<211> 203
<212> DNA
<213> Homo sapiens

<400> 8921
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aggcgggcgg atcaagaggt caggagatcg agaccatcct ggctaacacg gtgaaacccc 120
gtctctacta aaaatacaaa aaattagccg ggcgtggtgg cgggcgcctg tagtcccagc 180
tactcgggag gctgaggcag gag 203

<210> 8922
<211> 293
<212> DNA
<213> Homo sapiens

<400> 8922
gtggctcacg cctgtaatcc cagcacttcg ggaggccgag gtgggtggat cacgaggtca 60
ggagatcgag accatcctgg ctaacacggt gaaaccccgt ctctactaaa aatacaaaaa 120
attagctggg tgtggtggcg ggcgcctgta gtcacagcta cttgggagac tgaggcagga 180
gaatggcatg aacccgggag gtgcagcttg cagtgagcag agatctcgcc actgcactcc 240
agcctgggcg acagagcgag acttcatctc aaaaaaaaaa agaaagaaag taa 293

<210> 8923
<211> 295
<212> DNA

<213> Homo sapiens

<400> 8923
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ggagattgag accatcctgg ctaatatggt gaaaccccgt ctctactaaa aatacaaaaa 120
aattagccgg gcgtggtggc acacgcctgt aatcccagct acttaggagg ctgaggcagg 180
agaatggtgt gaacccggga ggcggagctt gcagtgagcc gagttcgggc cactgcactc 240
cggcctgggc aacagagcga gactccgtct caaaaaaaaa aaaaaaaaaa aaaaa 295

<210> 8924
<211> 138
<212> DNA
<213> Homo sapiens

<400> 8924
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agctcgagac catcctggct aacatggtga aaccccgtct ctactaaaaa tacaaaaaaa 120
ttgaccgggt gtggtggc 138

<210> 8925
<211> 167
<212> DNA
<213> Homo sapiens

<400> 8925
gcctgtaatc ccagcacttt gggaggccga ggcgggtgga tcacgagctc aggagatcaa 60
gaccatcctt gctaacacgg tgaaaccccg tctctactaa aaagacaaaa aattagctgg 120
acctggtggc gggcgcctgt agtcccagct acttgggagg ctgaggc 167

<210> 8926
<211> 300
<212> DNA
<213> Homo sapiens

<400> 8926
agcgcggtgg ctcacgcttg taatcccagc actttgggag gccaaggcgg gaggatcatg 60
aggtcaggag atccggacca tcctggctaa catggtgaaa ccccgtctct actaaaaata 120
caaaaaaatt agccaggcgt ggtggctggc gcctgtagtc ccagctactc gggaggctga 180
ggcaggagaa tggcgtgaac ccgggaggcg gagcttgcag tgagccgaga tcgcgccact 240
gcactccagc ctgggcgaca gagcaagact ccgtctcaaa aaaaaaaaaa aagtgcaaac 300

<210> 8927
<211> 183
<212> DNA
<213> Homo sapiens

<400> 8927
tgtggtggct cacgcctgta atcccagcac tttgggaggc ggaggcgggt ggatcacgag 60
gtcaggagat cgagaccatc ctggctaaca tggtgaaacc ctgtctctat taaaaataca 120
aaaaattagc tgggcgtggt ggtgggcgcc tgtagtccca gctgctcagg aggctgaggc 180
agg 183

<210> 8928
<211> 184
<212> DNA
<213> Homo sapiens

<400> 8928
gtgcagtggc tcacgcctgt aatcccagca ctttgggagg ccgaggtggg tggatcacga 60
ggtcaggaga tcgaggccat cctggcccac atggtgaaac ctcgtctcta ctaaaaatac 120
aaaagttagc caggcatggt ggcatgtgcc tgtagtccca gctactcggg aggctgaggc 180
agga 184

<210> 8929
<211> 306
<212> DNA
<213> Homo sapiens

<400> 8929
tttaggccgg gcgcgggggc tcacgcctgt aatcccagca ctttgggagg ccgaggcggg 60
cggatcacga ggtcaggaga tcgagaccat cccggctaaa acggtgaaac ccgtctctac 120
taaaaataca aaaaattagc cgggcgtagt ggcgggcgcc tgtagtccca gctacttggg 180
aggctgaggc aggagaatgg cgtgaacccg ggaggcggag cttgcagtga gcggagatcc 240
cgccactgca ctccagcctg ggcggcagag cgagactccg tctcaaaaaa aaaaaataat 300
aataat 306

<210> 8930
<211> 294
<212> DNA
<213> Homo sapiens

<400> 8930
gcgcggtggc tcacgcctgt aatcccagca ctttgggagg ctgaggcggg cggatcacga 60
ggtcaggaga tcgagaccat cctggctaac acggtgaaac cccatctcta ctaaaaatac 120
aaaaaattag ccgggcgagg tggcgggtgc ctgtagtccc agctactcgg gaggctgagg 180
caggagaatg gcgtgaaccc gggaagcgga gcttgcagtg agccgagatt gcgccattgc 240
actccagcct gggtgacagc gagactccgt ctcaaaaaaa aaaaaaaaag aagt 294

<210> 8931
<211> 127
<212> DNA
<213> Homo sapiens

<400> 8931
ccaggagcag tggctcaggc ctgtaatccc agcactttgg gaggccgagg caggtggatc 60
accaggtcag gagaccgaga ccatcctggc taacatggtg aaaccccatc tctactaaaa 120
atacaaa 127

<210> 8932
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (27)
<223> n equals a,t,g, or c

<400> 8932
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tcccggctaa aacggtgaaa ccccgtctct actaaaaata caaaaaatta gccgggcgta 120
gtggcgggcg cctgtagtcc cagctacttg ggaggctgag gcaggagaat ggcgtgaacc 180
cggaaggcgg agcttgcagt gagccgagat cccgccactg cactccagct tgggcgacag 240
agcgagactc cgtctcaaaa aaaaaaaaaa aaacaaaaca aacaaacaaa aaaaaacaa 299

<210> 8933
<211> 321
<212> DNA
<213> Homo sapiens

<400> 8933
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tcatgaggtc aggagatcga gaccatcctg gctaacaagg tgaaaccccg tctctactaa 120
aaatacaaaa aattagccgg gcgcggtggc gggcgcctgt agtcccagct actggggagg 180
ctgaggcagg agaatggcgt gaacccggga agcggagctt gcagtgagcc gagattgcgc 240
cactgcagtc cgcagtccgg cctgggcgac agagcgagac tccgtctcaa aaaaaaaaaa 300
aaaaaaaaag gaaaaaatac a 321

<210> 8934
<211> 316
<212> DNA
<213> Homo sapiens

<400> 8934
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atcacgaggt caggagatcg agaccatccc ggctaaaacg gtgaaacccc gtctctacta 120
aaaatacaaa aaattagccg ggcgtagtgg cgggcgcctg tggtcccagc tacttgggag 180
gctgaggcag gagaatggcg tgaacccggg aggcggagct tgcagtgagc cgagatcccg 240
ccactgcact ccagcctggg cgacagagcg agactccgtc tcaaaaaaaa ataaaataaa 300
ataaaaaaaa agaata 316

<210> 8935
<211> 130
<212> DNA
<213> Homo sapiens

<400> 8935
cctgtaatcc cagcactttg ggaggccgag gcgggcagat cacgaggtca ggagatcgag 60
accatcctgg ttaacatggt gaaaccccat ctctactaaa aatacaaaaa aaagttagcc 120
gggcgtggtg 130

<210> 8936
<211> 257
<212> DNA
<213> Homo sapiens

<400> 8936
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tcgagaccat cctggctaat acggtgaaag cccgtctcta ctaaaaatac aaaaaattag 120
ccgggcgtgg tggcgggcac ctgtggtccc agctacttcg ggaggctgag gcaggagaat 180
ggtgtgaacc cgggaggcag agcttgcagt gagccaagat cgcgccactg cattccagcc 240
tgggcgacag agcgaga 257

<210> 8937

<211> 102
<212> DNA
<213> Homo sapiens

<400> 8937
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ggccaacatg gtgaaacccc gtctctacta aaaatacaaa aa 102

<210> 8938
<211> 318
<212> DNA
<213> Homo sapiens

<400> 8938
gactcacggg cgggcgcggt ggctcacgcc tgtaatccca gcactttggg aggccgaggc 60
gggtggatca tgaggtcagg agatcgagac catcctggct aacaaggtga aaccccgtct 120
ctactaaaaa tacaaaaaat tagccaggcg cggtggcggg cgcctgtagt cccagctact 180
cgggaggctg aggcaggaga atggcgtgaa cccgggaagc ggagcttgca gtgagccgag 240
attgcgccac tgcagtccac agtccggcct gggtgacaga gcgagactcc gtctcaaaaa 300
aaaaaaaaaa aaaaaaaa 318

<210> 8939
<211> 298
<212> DNA
<213> Homo sapiens

<400> 8939
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caggagatcg agaccatcct ggctaacatg gtgaaacccc atctctacta aaaatacaaa 120
aaattagccg ggcgtggtgg cgggcccctg tagtcccagc tatttgggag gctgaggcag 180
gagaatggag tgaatccggg aggcagagct tgcagtgagc tgagatcgtg ccactgcatt 240
ccagcctagg cgacagagcc agactctgtc tcaaaaaaaa aaaaaaaaaa aaaaaatt 298

<210> 8940
<211> 140
<212> DNA
<213> Homo sapiens

<400> 8940
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agatcgagac catcctggct aacatggtga aaccccgtct ctactaaaaa aacacaaaaa 120
attagctggg catggtggca 140

<210> 8941
<211> 306
<212> DNA
<213> Homo sapiens

<400> 8941
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ggcggatcac gaggtcagga gatcgagacc atcctggcta acacggtgaa accccgtctc 120
tactaaaaat acaaaaaatt agctgggcgt ggtggcaggc gcctgtagtc ccagctactc 180
aggaggctga ggcaggagaa tggcatgaat ccgggaggca gagcttgccg tgagctgaga 240
tcgtgccact gcactccagc ctgggcgaga gagcaagact ccgtctcaaa aaaaaaaaaa 300
aaagaa 306

<210> 8942
<211> 223
<212> DNA
<213> Homo sapiens

<400> 8942
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gagatcgaga ccatcctggc taacatggtg aaaccccgtc tttactcaaa atacaaaaaa 120
attagccagg catggtggcg ggcgcctgta gtcccagcta ctctggaggc tgaggcagga 180
gaatggtgtg aacccccgag gaggagcttg cagtgagccg aga 223

<210> 8943
<211> 143
<212> DNA
<213> Homo sapiens

<400> 8943
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ctggctaaca tggtgaaacc ccgtctctac taaaaataca aaaaaattag ccaggcatgg 120
tggcgggtgc ctgtagtccc agc 143

<210> 8944
<211> 1575
<212> DNA
<213> Homo sapiens

<400> 8944
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gatcacgagg tcaggagatc gagaccatcc tggctaacat ggtgaaaccc catctctact 120
aaaaatacaa gaaaattagc cgggcgtggt ggcaggcgcc tgtagtccca gctaatcggg 180
aggctgaggc aggagaatgg cgtgaacctg cgaggtggag cttgcagtaa gctgagatta 240
cgccactgca ctccaacctg ggtgacagag tgagactctg tctcaaaaaa aaaaaaaaat 300
tccaacccct ttacactggg tcagtatatt gaaatatata aactttcact tgggaattat 360
tttttacctt tgcacccata tttgcctgaa gccgtttaag ttgtcgaagt cgcatgtatt 420
cagatttcac ttttcttttc cagtaagtga tacatttgga ggtaggggga tttggtattt 480
ccatcttgct gtaatctaag agagacagag atgagaaata gcattttatt gcctggaaat 540
aaagcattcc tcaaatacaa aaaaaaaaaa aagatcaatt atgctttcat tcccattaaa 600
tttactcata aaaacacaca tttaaagaac ccaaatgtgt gagttcaaca gaaagtttca 660
atttaaaaaa aagaggcagg ggctcacacc tgtaaaacca acactttagg aagccgaggt 720
gagagcacta cttgagccca gtgatttgag acaaccttgg gcaacatggt gaaaccccat 780
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gaccacgcca ctgcacttca gcctgagtga cagagtgaga ccttgtctca aaaaacaaaa 960
caaaacaaaa aaacaaaaaa caacaagaag tccaggcacg gtggctcacg cctgtaatcc 1020
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gaacctggga ggtggaagtt gcagtaagcc gagatcgcac cactgcactc cagcctgggt 1260
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gcctgtaatc ccagcacttt gggaggccaa ggtgggtgga tcacgaggtc aggagttcaa 1380
gaccagcctg gccaagatgc tgaaaccccg tctctactaa aaatacaaaa attagctgga 1440
tgtggtggca cacgcctata atcccagcta ctcaggtggc tgaggcagga gaatggcttg 1500
aaaccgggag gtggaagttg cagtgaaccg agatcacatc actgcactcc agcctgggcg 1560
acagagcaag actcc 1575

<210> 8945
<211> 279
<212> DNA

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<213> Homo sapiens

<400> 8945
cccccgcctg taatcccagc actttgggag gccaaggcgg gcggatcacg aggtcaggag      60
atcgagacca tcctggctaa cacggtgaaa cccccttctct actaaaaata caaaaaatca    120
gccgggcgtg gtggcgggcg cctgtagtcc cagctactca ggaggctgag gcgagagaat     180
ggcgtgaacc cgggaggcgg acttgcagtg agccgagatg gcgccactgc actccagcct     240
gggcaacaaa cagagcaaga ttccgtctca aaaaaaaaa                             279


<210> 8946
<211> 146
<212> DNA
<213> Homo sapiens

<400> 8946
ctggtgcggt ggctcacgcc tgtaatccca gcactttggg aggccgaggc gggtggatca      60
caaggtcagg agatcaagac catcctggct aacatggtga aacactgtct ctactaaaaa     120
tacaaaaaat tagccgggct aggttg                                          146


<210> 8947
<211> 271
<212> DNA
<213> Homo sapiens

<400> 8947
cactttggga ggctgaggcg ggcggatcac gaggtcagga aatcgagtcc atcctggcta      60
acatggtgaa accccgtctc tactaaaaat acaaaaaatt agccgggcgt gctggtgggc     120
gtctgtagtc ccagctactc aggaggctga ggcaggagaa tggcgtgaac ccgggaggcg     180
gaggttgcag tgagctgaga tcgcgccaca gcaactccag cctgggcgac agagcgagac     240
tctgtctcaa aaaaaaaaaa aaaaaagaaa a                                     271


<210> 8948
<211> 296
<212> DNA
<213> Homo sapiens

<400> 8948
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gatcattctg gctaacatgg tgaaaccccg tctctactaa aaatacaaaa aaaattagcc     120
gggcgtggta gcgggcgcct gtagtcccag ctactcggga ggctgaggca ggagaatggc     180
gtgaacccgg gaggcgcagc ttgcagtgag ccaagacagc gccactgcag cccagcctgg     240
gcgaaagagc aagactctgt ctcaaaaaaa aaaaaaaaaa aaaaaaagga aggaaa         296


<210> 8949
<211> 270
<212> DNA
<213> Homo sapiens

<400> 8949
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gaaaccccgt ctctactaaa aatacaaaaa attaaccggg cccggtggcg ggcgcctgta     120
gtcccagcta ctcgggaggc tgaggcagga gaatggcgtg aacccaggag gcggagcttg     180
cagtgagccg agattgcgcc actgcagtcc gcagtctggc ctgggcgaca gagcgagact     240
ccgtctctaa aaaaaaaaaa aaaaaaaaga                                       270


<210> 8950
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<211> 243
<212> DNA
<213> Homo sapiens

<400> 8950
tcggccgggc gcggtggctc acgcctgtaa tcccagcact ttgggaggcc gaggcgggcg 60
gatcacgagg tcaggagatc gaccccatcc tggctaacgc ggtgaaaccc tgtctcttct 120
aaaaatacaa aaaattaccc gggtgtggta gcgggcgcct gtagtcccag cttctcggga 180
gtctgaggca ggaaaatggt gtgaacccgg gaggcggagc ttacagtgag ccgagatcgc 240
gcc 243

<210> 8951
<211> 100
<212> DNA
<213> Homo sapiens

<400> 8951
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cgtggtgaaa ccccgtctct actaaaaata cagaaacaaa 100

<210> 8952
<211> 281
<212> DNA
<213> Homo sapiens

<400> 8952
cacgcctgta atcccagcac tttgggaggc cgaggcgggt ggatcacgag gtcaggagat 60
cgagaccatc ctggctaaca cagtgaaacc ccgtatctac taaaaataca aaaaattagc 120
agggtgtggg ggggggcgcc tgtagtccca gctactcagg aggctgaggc aggagaatgg 180
cgtgaacccg ggaggtggag cttgcagtga gttgagattg cgccactgca ctccagcctg 240
ggcgacagag caagactcca tctcaaaaat aaataaataa a 281

<210> 8953
<211> 319
<212> DNA
<213> Homo sapiens

<400> 8953
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ccgaggccgg cggatcacaa ggtcaggaga tcgagaccat cctggctaac atggtgaaac 120
cccgtctgta ctaaacatac aaaaagttag ccgggcatgg tggcgggcac ctgccgtccc 180
agctacttgg gaggctgagg caggagaatg gcgtgaaccc gggaggcgga gcttgcagtg 240
agccgagatg gcgccactgc actccagcct gggcgacaga gcgagactcc gtctcaaaaa 300
gaaaaagaat agaaatcta 319

<210> 8954
<211> 311
<212> DNA
<213> Homo sapiens

<400> 8954
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tctctactaa aaatacaaaa aattagctgg gcatggtgac gggcgcttgt agccccagct 180
actcgggagg ctgaggcagg agaatggcgt gaacctggga ggcagagctt gcagtgagca 240
gagatcacgc cactgcactc cagcctgggc gacagagcga gactccatct caaaaaaaaa 300
gaagaaatac a 311

<210> 8955
<211> 300
<212> DNA
<213> Homo sapiens

<400> 8955
gcgcggtggc tcacgcctgt aatcccagca ctttgggagg ccgaggcggg tggatcacga 60
ggtcaggaga tcgagaccat cctggctaac acggtgaaac cccgtctcca ctaaaaatac 120
aaaaaattct ccgggcatgg tggcgggcgc ctgtagtccc agctactcca gaggctgagg 180
caggagaatg gcatgagccc aggaggcgga gcatgcagcg agccgagatg gaaccactgc 240
actccagcct gggtgacaga gcgagactcc gtctcaaaaa aaaaaaaaaa aaaaccacac 300

<210> 8956
<211> 277
<212> DNA
<213> Homo sapiens

<400> 8956
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cagcctggct aacatggtga aaccccgtct ctactaaaaa tacaaataat tagcctggcg 120
tggtggtggg cacctgtagt cccagctact ggggaggtga ggcaggagaa tggcgtgaac 180
ccgggaggcg gagcttgcag tgagccgaga tcgcaccact gcactccagt ctgggcgaca 240
gagcgagaca ccgtcaaaaa aaaaaaaaaa aaaaaga 277

<210> 8957
<211> 17946
<212> DNA
<213> Homo sapiens

<400> 8957
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tgtaaaagat tacagtaaat cgtgaagtct tatggaggtt tttgcgggag tgggtgggag 120
tagttgtcta ttactgcgtc tttgaatcta aaacagtacc aggatggggc cagagggcat 180
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catccaaaaa ccactgagat gtttttgtgc aggggaaata aaatttcaag cactggccta 300
tcatctaaag tgacttcttt tcttgaccca gtagttttct ggtgggttat aaagtgactt 360
tttttatgcc gagaactatt gaaacaattt atttttgtgt acaaatatgt atgttttgaa 420
ttaactataa atattacgtt ataaaacttt tttattttta tttttataaa acttgtgttt 480
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gattcaagtt gacagactct tctgttttag agagtaaatg cctttggatt ataacttaca 660
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agaatcttag aataaaatat aaattcaaat tgccaatact ggcttgacgg taaagtggca 780
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acttaaagga agcattttg gcttctcttt ggcatatctg aattgccagc atcactatcc 1560
ttacactttg ggggcccttc taataaataa agggttactt gaagacaagc actgtgatac 1620

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catggacacg ctggacaaag ggatggctcg cagttttgt  aatggcaaaa atttcatcac   1740
actactcaga gcgacatgta gtttaaaact tacgacttgt ttatttctgg aattttccat   1800
ttagtatttt tgaaccggag ttgaccatgg ataactgaaa ttacagaaag tgaaacgtgg   1860
ctaacggggt gctagtccct cagtcatccc caagcccttc accaactctg ccctgtattt   1920
cagatcaccg aagtggcctt ggagtacaac aactgtcatg gggaccaggt ggtggagcgt   1980
ctccttcagc acctgcggcg ggtggatgct ccagtgctgg agtccctggc cctggaagtg   2040
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ccgggcgtgg tggcgggcgc ctgtagtccc agctactccg gaggctgagg caggagaatg     180
gcgtgaaccc aggaggtgga gcttgcagtg agccgagatc gcgccactgc acgccagcct     240
gggtgatgac agagactccg tctcaaaaaa aaaaaaaaaa aaaaaaaa                  288


<210> 8969
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<211> 282
<212> DNA
<213> Homo sapiens

<400> 8969
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accatcctgg ctaacatggt gaaaccccgt ctctactaaa aatacaaaaa attagccggg     120
cgtggtggcg ggcgcctgta gccccagcta ctccggaggc tgaggcagaa gaatggcttg     180
aaccgggagg cggagcttgc agtgagccaa gatcgcacca ctgcactcca gcctgggtga     240
cagagcgaga ctccgcctca aaaaaaaaaa aaaaaaaaaa aa                        282


<210> 8970
<211> 275
<212> DNA
<213> Homo sapiens

<400> 8970
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acacggtgaa accccgtctc tactaaaaat acaaaaaaaa atgccaggtg tggtggtggg     120
cgcctgtagt cccagctact tgggaggctg aggcaggaga atggcgtgaa ccaggaaggc     180
ggagcttgct gtgagccgac ctcgcaccac tgcactccag cctgggcgac agagtgagac     240
tccgtctcaa aaaaaaaaaa aaaaaaaaaa aaaaa                                275


<210> 8971
<211> 133
<212> DNA
<213> Homo sapiens

<400> 8971
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tcatgaggtc aggagatcga gaccatcctg gctaacacgg tgaaaccccg tctctactaa     120
aaatacaaaa att                                                        133


<210> 8972
<211> 181
<212> DNA
<213> Homo sapiens

<400> 8972
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gggcggatca cgaggtcagg agatcgagac catcctggct aacacggtga aaccctgtct     120
ctactaaaaa tacataaaaa ttagccgggc aaggtggcag gtgcctgtag tcccagctac     180
t                                                                     181


<210> 8973
<211> 301
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (98)
<223> n equals a,t,g, or c

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caggagatcg agaccatcct ggctaacacg gtgaaacncc gtctctacta aaaatataaa     120
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gagaatggcg tgaacccggg aggcggagct tgcagtgagc cgagatcgtg ccactgcact 240
ccagcctggg cgacagagtg agactccgtc tcaaaaaaaa aaaaaaaaaa gttattcttc 300
g 301

<210> 8974
<211> 301
<212> DNA
<213> Homo sapiens

<400> 8974
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atacaaaaat tagccgggca tggtggcatg cacctgtagc cccagctaca cgggaggctg 180
aggcaggaga atggcgtgaa cccgggaggc ggagcttgca gtgagtcgag atcgcgccac 240
tgcactccag cctgggcgac agagcgaaac tccgtctcaa aaaaaaaaaa aaagaataag 300
a 301

<210> 8975
<211> 111
<212> DNA
<213> Homo sapiens

<400> 8975
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tcctggctaa cgtggtgaaa ccccgtctct actaaaaata caaaaacaaa a 111

<210> 8976
<211> 182
<212> DNA
<213> Homo sapiens

<400> 8976
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acgaggtcag gagatcgaga ccatcctggc taacatggtg aaaccccgtc tctactaaaa 120
attcaaaaaa ttagccaggc gcggtggcgg gcacctgtag tcccagctac tcagtaggct 180
ga 182

<210> 8977
<211> 300
<212> DNA
<213> Homo sapiens

<400> 8977
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aaaaaaaaat tagccaggca tggtggcggg cgcctgtagt cccagctact ccggaggctg 180
aggcaggaga atggcgtgaa cccgggaggc ggagcttgca gtgagcagag atcgcgccac 240
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<210> 8978
<211> 611
<212> DNA
<213> Homo sapiens

<400> 8978

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gctgaggcgg gaggatcacg aggtcaagag atggagacca tcctggctaa cacggtgaaa 420
ccctgtcttt actaaaagta caaaaaaaaa aattagccgg gtgtagtagc gggcacctgt 480
agtcccagct actcgggagg ccgaggcagg agaatgacgt gaacccggga ggcggagctt 540
gcagtgagct gagatcccgc cactgcactc cagcctgggc gacagaacaa gactccgtct 600
caaaaaaaaa a 611

<210> 8979
<211> 291
<212> DNA
<213> Homo sapiens

<400> 8979
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tcgagaccat cccggctaaa acggtgaaac cctgtctcta ctaaaaatac aaaaaattag 120
ccgggcgtag tggcgggcgc ctgtagtccc agctacttgg gaggctgagt caggagaatg 180
gcgtgaaccc gggaggccga gcttgcagtg agccgagata gcaccactgc actccagcct 240
gggcaataga gcgagactcc atctcaaaaa acaaacaaac aaacaaacat a 291

<210> 8980
<211> 308
<212> DNA
<213> Homo sapiens

<400> 8980
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aggagatcga gaccatcctg gttaacacgg tgaaaccccg tctttactaa aaatacaaaa 120
aaaattagcc gggcgtgatg gtgggcgcct gtagtcccag ctactcggga ggttgaggca 180
ggagaatggc gtgaacccgg gaggcggagc ttgcagtgag ccgagattgc gccactgcac 240
tcccgcttgg gccacagagc gagactccgt ttcaaaaaaa aaaaaaaaaa aaaaaaaaag 300
gaacaaga 308

<210> 8981
<211> 197
<212> DNA
<213> Homo sapiens

<400> 8981
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cgcctgtagt cccagctact caggaggctg aggcaggaga atggcgtgaa cccgggaggt 120
ggagcttgca gtgagctgag attgcaccac tgcactccag cctgggcgac acagcaagac 180
tctgtctcaa aaaaaaa 197

<210> 8982
<211> 114
<212> DNA
<213> Homo sapiens

<400> 8982
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ccaatatggt gaaaccccat ctctactaaa aatacaaaaa ttagctgggc atgg 114

<210> 8983
<211> 297
<212> DNA
<213> Homo sapiens

<400> 8983
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<210> 8984
<211> 307
<212> DNA
<213> Homo sapiens

<400> 8984
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acaaaaa 307

<210> 8985
<211> 226
<212> DNA
<213> Homo sapiens

<400> 8985
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acaaaaaaat tagctgggcg tgatggcagg tgcctgtagt cccagctact cgggaggctg 180
aggcaggaga atggcatgaa actgggaggc ggagcttgca gtgagc 226

<210> 8986
<211> 280
<212> DNA
<213> Homo sapiens

<400> 8986
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gagactccgt ctcaaaaaaa aaaaaaaaaa aaaaaatagg 280

<210> 8987
<211> 305
<212> DNA
<213> Homo sapiens

<400> 8987
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tggatcacga ggtcaggaga tccagaccat cctggctaac acggtgaaac cccgtctcta 120

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gaggatgagg caggagaatg gcgtgaacct gggaggcgga gtttgcagtg agccgagatg     240
gcgccactgc cctgcagcct gggcgacaga gagagactcc gtctcaaaaa aaaaaaaaaa     300
aaaaa                                                                 305


<210> 8988
<211> 148
<212> DNA
<213> Homo sapiens

<400> 8988
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cacgaggtca ggagatcgag accatcctgg ctaacacggt gaaaccccgt ctctactaaa     120
aaatacaaaa aaaaaaaaaa aaaaaata                                        148


<210> 8989
<211> 3905
<212> DNA
<213> Homo sapiens

<400> 8989
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gccgggcgtg gtggcgggcg cctgtagtcc cagctactcg ggaggctgag gcaggagaat     180
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<210> 8990
<211> 130
<212> DNA
<213> Homo sapiens

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aaatacaaaa 130

<210> 8991
<211> 275
<212> DNA
<213> Homo sapiens

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gcatggtggc gggcacctgt agtcccagct actcgggagg ctgaggcagg agaatggtgt 180
gaagctggga ggcggagctt gcagtgagcc cagattgtgc cactgcactc cagcctgggt 240
gacagagcaa gactctgact caaaaaaaaa aaaaa 275

<210> 8992
<211> 264
<212> DNA
<213> Homo sapiens

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gggagccaga gcttgcagtg agccgagatg gcgccaccgc actccagcct gggagacaca 240
gagagactct gtctcaaaaa aata 264

<210> 8993
<211> 163
<212> DNA
<213> Homo sapiens

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atacaaaaat tagctggacg tggtggcatg tgccagtaat ccc 163

<210> 8994
<211> 237
<212> DNA
<213> Homo sapiens

<400> 8994
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aaccccgtct ctactaaaaa tacaaaaaat tagccgggcg atgtggcggg cgcctgtagt 120
cccagctact cgggaggctg aggcaggaga aaggcgtgaa ccccgcgggc cagagcctgc 180
agtgagccga gatcgcccca ctgcactcca gcctgcgcaa cagcgagact ccatctc 237

<210> 8995
<211> 310
<212> DNA
<213> Homo sapiens

<400> 8995
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ggcagatcac gaggtcagga gatcgagacc atcctggcta acacggtgaa accccgtctc 120
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cgggaggctg aggcaggaga atggcatgaa cccgggaggt ggagcttgca gtaagctgag 240
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gaaaagaaaa 310

<210> 8996
<211> 176
<212> DNA
<213> Homo sapiens

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gagatcaaga ccatcctggc taacacggtg aaaccccgtc tctactaaaa atacaaaaaa 120
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<210> 8997
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<212> DNA
<213> Homo sapiens

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<210> 8998
<211> 176
<212> DNA
<213> Homo sapiens

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<210> 8999
<211> 2364
<212> DNA
<213> Homo sapiens

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<211> 276
<212> DNA
<213> Homo sapiens

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<211> 289
<212> DNA
<213> Homo sapiens

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<211> 261
<212> DNA
<213> Homo sapiens

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<211> 169
<212> DNA
<213> Homo sapiens

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<210> 9005
<211> 312
<212> DNA
<213> Homo sapiens

<400> 9005
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tactaaaaat acaaaaaatt agccgggcgt agtggcgggc gcctgtagtc ccagctactt     180
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<211> 284
<212> DNA
<213> Homo sapiens

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gagcaagact ccgtctcaaa aaaaaaaaaa aaaaaaaaag tcta                      284


<210> 9007
<211> 298
<212> DNA
<213> Homo sapiens

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<210> 9008
<211> 282
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

<400> 9009
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<210> 9010
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<212> DNA
<213> Homo sapiens

<400> 9010
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aaaaaaaaaa a                                                          311
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<210> 9011
<211> 131
<212> DNA
<213> Homo sapiens

<400> 9011
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<210> 9012
<211> 158
<212> DNA
<213> Homo sapiens

<400> 9012
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<212> DNA
<213> Homo sapiens

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<211> 281
<212> DNA
<213> Homo sapiens

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<210> 9016
<211> 147
<212> DNA
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<213> Homo sapiens

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<211> 312
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<213> Homo sapiens

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<211> 129
<212> DNA
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<400> 9018
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<210> 9019
<211> 277
<212> DNA
<213> Homo sapiens

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tggctaacac ggtgaaaccc cgtctctact aaaaatacaa aaaaattagc cgggcgtagt     120
ggcgggcacc tgtagtccca gctactccgg aggctgaggc aaggagaatg gcgtgaacct     180
gggaggcgga gcttgcagtg agccgagatg gcgccactgc actccagcct gggtgatgga     240
gcgagacttg tctcaaaaaa aaaaaaaaaa agaataa                              277


<210> 9020
<211> 175
<212> DNA
<213> Homo sapiens

<400> 9020
cacgcctgta atcccagcac tttgggaagc ccaggtgggc ggatcacgag gtcaggagat      60
caagaccatc ctggccaaca tggtgaaacc ccgtctctac taaaaataca aaaaaattag     120
ccgggcgtgg tggcccgcgc ctgtggtccc agatactcgg gagtctgagg cagga          175


<210> 9021
<211> 309
<212> DNA
<213> Homo sapiens
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<400> 9021
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accatcccgg ctaaaacggt gaaaccccgt ctctactaaa aatacaaaaa attagccggg     120
cgtagtggcg ggcgcctgta gtcccagcta cttgggaggc tgaggcagga gaatggcgtg     180
aacccgggag gctgagcttg cagtgagccg agatcccgcc actgcactcc agcctgggcg     240
acagagcgag actccgtctc aaaaaataaa aataaaaata aaaaataata ataaaaataa     300
aaaataaaa                                                             309


<210> 9022
<211> 310
<212> DNA
<213> Homo sapiens

<400> 9022
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tcacgaggtc aggagatcga gaccatcccg gctaaaacgg tgaaaccccg tctctactaa     120
aaatacaaaa aattagccgg gcgtagtggc gggcgcctgt agtcccagct acttgggagg     180
ctgaggcagg agaatggcgt gaacccggga ggcggaggtt gcagtgagcc gagatcccgc     240
cactgcactc cagcctgggc gacagagcga gactccgtct caaaaaaaaa aaaaaaaaaa     300
aaaaaaaaat                                                            310


<210> 9023
<211> 253
<212> DNA
<213> Homo sapiens

<400> 9023
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atggtgaaac cccgtctcta ctaaaaatac aaaaaattag ctgggtgtgt ttgcaggtgc     120
ctgtagtccc agctactcgg gaggctgagg caggagaatg ggctgaaccc aggaggcggc     180
ttgcagtgag ccgagatcgc accactgcac tccagcctgg gcgacagagc gagactccat     240
ctcaaaaaaa aaa                                                        253


<210> 9024
<211> 303
<212> DNA
<213> Homo sapiens

<400> 9024
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tgggcggatc acgaggtcag gagatcgaaa ccatcctggc taacacggtg aaaccccgtc     120
tctactaaaa atacaaaaaa attagccagg cgtggtggca ggcacctgta gccccagcta     180
ctcgggaggc tgaggcagga gaatggcatg aacccaggag gcagagcttg cagtgagccg     240
agatcccgcc actgcactcc agcctgggtg atagagcaag actccgtctc aaaaaaaaaa     300
aga                                                                   303


<210> 9025
<211> 292
<212> DNA
<213> Homo sapiens

<400> 9025
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gagatcgaga ccatcctggc taacacggtg aaaccttgtc tctactaaaa atacaaaaat     120
tagccgggca tagtggcggg cgcctgtagt cctagctact cgggaggctg aggcaggaga     180
atggcgtgaa cccgggaggt ggagcttgca gtgagctgag attgcgccac tgcactccag     240
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cctgggtgac agagtgagac tccgtctcaa aaaaaaaaaa aaaattaaaa aa 292

<210> 9026
<211> 287
<212> DNA
<213> Homo sapiens

<400> 9026
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ccatcctggc tgacacggtg aaaccccgtc tctactaaaa atacaaaaaa atggccgggt 120
gtggtggcga gcacctgcct gtagtcccag ctactcggga ggctgaggca ggagaatggc 180
ttgaacccgg gaggcggagc ttgcagtgag ccgagatcgc gccactgcac tccagcctag 240
gcgacagagc aagactccct ctccaaaaaa aaaaaaaaaa aaaaaaa 287

<210> 9027
<211> 130
<212> DNA
<213> Homo sapiens

<400> 9027
tgcctgtaat ccaagcactt tgggaggtcg aggcgggtgg atcacgaggt caggagatgg 60
agaccatcct ggctaacatg gtgaaacccc atctctacta aaaaatacaa aaaattagct 120
gggcatggtg 130

<210> 9028
<211> 273
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> n equals a,t,g, or c

<400> 9028
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acacggtgaa accccgtctc tactaaaaat acaaaaaaat tagccgggcg tggtggcggg 120
cgcctgtagt cccagctact cgggaggctg aggcaggaga atggcgtgag cccgggaggc 180
ggagcttgca gtgagcggag atcgcgccac cgcacttcag cctgggcgac agagcaagac 240
tcttgtctca aaaaaaaaaa aaaaaagtgg cag 273

<210> 9029
<211> 279
<212> DNA
<213> Homo sapiens

<400> 9029
cactttggga ggccgaggcg ggcggatcac gaggtcagga gatcgagacc attctggcta 60
acacggtgaa accccgtctc tactaaaaat acaaaaaatt agccgggcgt ggtagcgggc 120
gcctgtagtc ccagctactc gggaggctga ggcaggagaa tggcgtgaac ccgggaggcg 180
gagcttgcag tgagccgaga tcgcgccact gcactccagc ctgggcgaca gagcgagact 240
ccgtctcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaga 279

<210> 9030
<211> 308
<212> DNA

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<213> Homo sapiens

<400> 9030
agggccgggc gcggtggctc atgcctgtaa tcccagcact ttgggaggcc gaggcgggcg      60
gatcacgagg tcaggagatc gagaccatcc tggctaacgt ggtgaaaccc cgtctctact     120
aaaagtacaa ataaaaaatt agccgggcgt ggcggtgggc gcctgtagtc ccagctactc     180
gggaggctga ggcaggagaa tggcgtgaac ccgggaggcg gagcttgcag tgagccgaga     240
ttgcgccact gcactccagc ctgggcgaca cagcaagact ccgtctcaaa aaaaaaagtt     300
gaaaagct                                                              308


<210> 9031
<211> 158
<212> DNA
<213> Homo sapiens

<400> 9031
aaaccccgtc tctactaaaa atacaaaatt agctgggctt ggtggcgcat gcctgtaatc      60
ccagctactc gggaggttga ggcaagagaa ttgcctgaac ccaggaggcg gaggttgcgg     120
agagccgaga tcatgccatt gcactccagc ctgggcaa                             158


<210> 9032
<211> 320
<212> DNA
<213> Homo sapiens

<400> 9032
atggtggctc acgcctgtaa tcccagcact ttgggaggcc gaggcgggcg gatcacgagg      60
tcaggagatt gagaccatcc tggctaacac ggtgaaaccc cgtctctact aaaaatacaa     120
aaaaattagc cgggcgtggt ggcgggcacc tgtagtccca gctactcagg aggctgagac     180
aggagaatgg cgtgaacccg ggaggcagag cttgcagtga gccgagattg caccactgca     240
ctccagcctg ggcaacagag caagactccg tctcaaaaaa aaaaaagaaa aaagaaaaga     300
aaagaaaaga aaacgaagtc                                                 320


<210> 9033
<211> 124
<212> DNA
<213> Homo sapiens

<400> 9033
gcccatgcct gtaatcccag aactttggga ggccgaggcg ggcggatcac gaggtcagga      60
gatcgagacc atcctggcaa acacggtgaa accccgtctc tactaaaaat acaaaaaaaa     120
aaat                                                                  124


<210> 9034
<211> 308
<212> DNA
<213> Homo sapiens

<400> 9034
caggccgggc gcggtggctc acgcctgtaa tcccagcact ttgggaggcc gaggcgggcg      60
gatcacgagg tcaggagatc gagaccatcc tggctaacac ggtgaaaccc cgtctctact     120
aaaaatacaa aaaattagcc gggcgtggtg gtgggcgcct gtaatcccag ctactcggga     180
ggctgaggca ggagaatggc atgaacccaa gaggcggagc ttgcagtgag ccgggatagc     240
gccactgcag tccagcttgg gcgaaagagt gagactccgt ctcaaaaaaa aaaaaaagtt     300
gaataaac                                                              308
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<210> 9035
<211> 300
<212> DNA
<213> Homo sapiens

<400> 9035
gctcacgcct gtaatcccag cactttggga ggccgaggcg ggcggatcac gaggtcagga 60
gatcgagacc atcctggcta acacggtgaa accccatctc tactaaaaat acaaaaaatt 120
agccgggcgt ggtagcgggc gcctgtagtc ccagctactc gggaggctga ggcaggagaa 180
tggcgtgaac ccgggaggcg gagcttgcag tgagccgaga tcgcgccact gcactccagc 240
ctgggcgaca gagcgagact ccgtctcaaa aaaaaaaaaa aaaaaaaaaa aaaaaattaa 300

<210> 9036
<211> 226
<212> DNA
<213> Homo sapiens

<400> 9036
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caggagatca agaccatcct ggctaacatg gtgaaacccc gcctccacta aaaatacaaa 120
aaattagccg ggcatggtgg cgggcgcctg tagtcccagc aactcgggag gctgaggcag 180
gagaatggcg tgaacccagg aggcggaggt tgcagtcagc caagat 226

<210> 9037
<211> 308
<212> DNA
<213> Homo sapiens

<400> 9037
ggtctgccag gcgcagtggc tcacgactgt aatcccagca ctttgggagg ccgaggcggg 60
cggatcacga ggtcaggaga tcgagaccat cctggctaac acggtgaaac ccggtctcta 120
ctaaaaatac aaaaagttag ccgggcgtgg tggcgggcgc ctgtagtccc atctactcgg 180
gaggctgagg caggagaatg gcgtgaaccc gggaagtgga gcttgcagta agccgagatc 240
gtgccactgc actccagtct gggcgacaga gcgagactcc gtctcagaaa ataaacaaac 300
aaaaaatc 308

<210> 9038
<211> 140
<212> DNA
<213> Homo sapiens

<400> 9038
aggccgaggc gggtggatca cgaggtcagg agatcgagac catcctggct aacatggtga 60
aaccccatct ctactaaaaa tacaaaaaaa tagccgggcg cggtggtggg cgcctgtagg 120
cccagctact tgggaggctg 140

<210> 9039
<211> 287
<212> DNA
<213> Homo sapiens

<400> 9039
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aagaccatcc tggctaacac ggtgaaaccc cgtctctact aaaaatacaa aaaattagcc 120
gggcgtggta gcgggcgcct gtaatcgggg gtactccgga ggctgaggca ggagaatggc 180
gtgaacccgg gaggcggagc ttgcagtgag ccgagattgc gccactgcac tccagcctgg 240
gcgacagagc gagacttcat ctcaaaaaaa aaaaaaaaaa aaaaaaa 287

<210> 9040
<211> 266
<212> DNA
<213> Homo sapiens

<400> 9040
atttgggagg ccgaggcggg cggatcacaa ggtcaggaga tcgagaccat cctggctaac 60
acggtgaaac cccgtctcta ctaaaaatac aaaaaaatta cccgggcgtg gtggtgggcg 120
cctgtggtcc cagctactcg ggaggctgag gcaggagaat ggtgtgaacc cgggaggcgg 180
agcttgcagt gagccgagat cgcaccactg cactccagcc tgggcgacag agcgagactc 240
catctcaaaa aaaaagaaat aagaaa 266

<210> 9041
<211> 142
<212> DNA
<213> Homo sapiens

<400> 9041
taaaggctgg gcgcagtggc tcacgcctgt aatcccagca ctttgggagg ccgaggcagg 60
tggatcacga ggtcaggaga ttgagaccat cctggctaac atggtgaaac cccgtctcta 120
ctaaaaatac aaaaaaaaaa aa 142

<210> 9042
<211> 157
<212> DNA
<213> Homo sapiens

<400> 9042
cgtgactcac gcctgtaatc ccagcacttt gggaggccga ggcgggcaga tcacgaggtc 60
agaagatcga gactatcctg gctaacacgg tgaaaccccg tctctactaa aaatcaaaaa 120
aaattagccg ggagtggtgg cggttgcctg tagtccc 157

<210> 9043
<211> 322
<212> DNA
<213> Homo sapiens

<400> 9043
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aaaaaaaaaa aaaaaaaaat tc 322

<210> 9044
<211> 5125
<212> DNA
<213> Homo sapiens

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gcggacgcct gtagtcccag ctactcggga ggctgaggca ggagaatggc gtgaacccgg 180
gaagcggagc ttgcagtgag ccgagattgc gccactgcag tccgcagtcc ggcctgggcg 240

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<210> 9045
<211> 140
<212> DNA
<213> Homo sapiens

<400> 9045
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ttagctgggc gttgtggcgg 140

<210> 9046
<211> 146
<212> DNA
<213> Homo sapiens

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acgaggtcag gagattgaga ccgtcctggc taatatggtg aaaccccgtc tctactgaaa 120
atacaaaaaa ttagccgggc aaggtg 146

<210> 9047
<211> 281
<212> DNA
<213> Homo sapiens

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<212> DNA
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<212> DNA
<213> Homo sapiens

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<212> DNA
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<212> DNA
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<212> DNA
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tggccaacat ggtgaaaccc cgtctctact aaaatacaaa aaaaaaa 107

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aaaaaaaaaa aaagaaca 318

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aatggcgtga acccgggagg tggagcttgc agtgagc 217

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<212> DNA
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aagact 306

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<212> DNA
<213> Homo sapiens

<400> 9065
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<400> 9066
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<210> 9068
<211> 1902
<212> DNA
<213> Homo sapiens

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<211> 523
<212> DNA
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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 2200
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<210> 9139
<211> 2655
<212> DNA
<213> Homo sapiens

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aacaagttca agtttattgt atatgcctga agcccttacc aagttttaaa taacaagtag 2520
caaatttata tttcaagcac agagaattta agctttccaa aaggccaatt caattttacg 2580
ttatctttgg caaaaatcat gttaacagaa tccaaaagag taaaacataa aggcctttct 2640
tctacaaaaa aaaaa 2655

<210> 9140
<211> 463
<212> DNA
<213> Homo sapiens

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<400> 9140
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aggtaaatgt ttcacttttc cccacaaaag tatactttac ctaattgcta tgagctataa     120
atggctcaaa aaaaatgtgg actctggcaa aacaaatatg agaagaatca acaatgtttc     180
aaacaaaaag tgattaaaaa atcatttcag tcctctatca gttcagtccc atgtaattaa     240
ttcctgttct gtttcatgtt ggcttagcaa tcttcattaa cacatcagtt ttttattcga     300
attttggaaa tttttaccta gtccaatggt atcatctcca tagttatctg aaacctgtat     360
tcaagaatac ttgaatatgg tacaaactcg tattcaaagt cctttccacg aatttctttg     420
aagacacaca ttttaggatt tggagggaaa caaagctctt aaa                       463


<210> 9141
<211> 157
<212> DNA
<213> Homo sapiens

<400> 9141
aggctagcta tgtgtatata tatagctatg tgtatatata tatatgtata tatatatagc      60
tatgtgtata tatatatgta tatatatata gatagcctga atgtcagctt ttaattaagc     120
taatttctgg ctatagacct ctttcaaaga aaaaaaa                              157


<210> 9142
<211> 463
<212> DNA
<213> Homo sapiens

<400> 9142
cataaaataa gaatattcac aaatagttcc caaattctgg agaaaatcag gtaaagagga      60
aggtaaatgt ttcacttttc cccacaaaag tatactttac ctaattgcta tgagctataa     120
atggctcaaa aaaaatgtgg actctggcaa aacaaatatg agaagaatca acaatgtttc     180
aaacaaaaag tgattaaaaa atcatttcag tcctctatca gttcagtccc atgtaattaa     240
ttcctgttct gtttcatgtt ggcttagcaa tcttcattaa cacatcagtt ttttattcga     300
attttggaaa tttttaccta gtccaatggt atcatctcca tagttatctg aaacctgtat     360
tcaagaatac ttgaatatgg tacaaactcg tattcaaagt cctttccacg aatttctttg     420
aagacacaca ttttaggatt tggagggaaa caaagctctt aaa                       463


<210> 9143
<211> 157
<212> DNA
<213> Homo sapiens

<400> 9143
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tatgtgtata tatatatgta tatatatata gatagcctga atgtcagctt ttaattaagc     120
taatttctgg ctatagacct ctttcaaaga aaaaaaa                              157


<210> 9144
<211> 184
<212> DNA
<213> Homo sapiens

<400> 9144
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aacctgggag gcggagcttg cagtgagccg agatcgcgcc actgcactcc agcctgggcg     120
acagagcgag agtccgtctc aaaaaaaaaa aaaaaaaaga aaagaaaaaa gaacaaacaa     180
cagc                                                                  184
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<210> 9145
<211> 147
<212> DNA
<213> Homo sapiens

<400> 9145
ggtcccagct actcgggagg cttaggcagg agaatggcgt gaacccagga ggtggagctt 60
gcagtgagcc gagatcgcgc cactgcactc cagcctgggc gacagagcga gactccatct 120
caaaaaaaaa aaaaaaaaaa aattgtg 147

<210> 9146
<211> 143
<212> DNA
<213> Homo sapiens

<400> 9146
gtagtcccag ctactgggga ggctgaggca ggagaatggc gtgaacctgg gaggcggagc 60
ttgcagtgag ccgagatcgc gccactgcac tccagcctgg gcgacagagc gagactccgt 120
ctcaaaaaaa aaaaaaagaa atg 143

<210> 9147
<211> 170
<212> DNA
<213> Homo sapiens

<400> 9147
gccgggcgtg gtagcgggcg cctgtagtcc cagctactcg ggaggctgag gcaggagaat 60
ggcgtgaacc cgggaggcgg agcttgcagt gagccgagat ctcgccactg cactccagcc 120
tgggcgacag agcgagactc cgtctcaaaa aaaaaaaaaa aaaaagactg 170

<210> 9148
<211> 171
<212> DNA
<213> Homo sapiens

<400> 9148
aaaaaattag ccgggtgtgg tggcgggcgc ctgtagtccc agctgctggg gaggctgagg 60
caggagaatg gcgtgaaccc gggaggcgga gcttgcagtg agccgagatc ccgccactgc 120
actccagcct gggtgacaga gcgagactcc atctcaaaaa aaaaaaaaaa a 171

<210> 9149
<211> 141
<212> DNA
<213> Homo sapiens

<400> 9149
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gagccgagac agcgccactg cactccagcc tgggtgaaag agcgagactc cgtctcaaaa 120
aaaaaaaaaa aaaaaaaatt t 141

<210> 9150
<211> 162
<212> DNA
<213> Homo sapiens

<400> 9150
agctacttgg gaggctgagg caggagaatg gcgtgaaccc gggaggcgga gcttgcagtg 60
agccgagatc ccgccactgc actccagcct gggcgacaga gcgagactcc gtctcaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaca aa 162

<210> 9151
<211> 193
<212> DNA
<213> Homo sapiens

<400> 9151
aaaaattagc cgggcgtggt ggcgggcgcc tgtagtccca gctactcgag aggctgaggc 60
aggagaatgg cgtgaacccg ggaggcggag cttgcagtga gccgagatcg cgccactgca 120
ctccagcctg ggcgacagag cgagactccg tctcaaaaaa aaaaaaaaaa aaaaaaaaga 180
tcagaaaaaa ata 193

<210> 9152
<211> 98
<212> DNA
<213> Homo sapiens

<400> 9152
tgtgaacctg ggaggtggag cttgcagtga gcggagatcg tgccactgca ctccagcctg 60
ggtgacagag tgagactcca tctcaaaaaa aaaaaagg 98

<210> 9153
<211> 153
<212> DNA
<213> Homo sapiens

<400> 9153
cccagctact cgggaggctg aggcaggaga atggcgtgaa cccgggaggc ggagcttgca 60
gtgagccgag atcgcgccac tgcactccag cctgggcgac agagcgagac tccgtctcaa 120
aaaaaaaaaa aaaaaaaaga aagcagtggg gcc 153

<210> 9154
<211> 202
<212> DNA
<213> Homo sapiens

<400> 9154
tactaaaaat acaaaaaatt agccgggcgt agtggcgggc gcctgtagtc ccagctactc 60
gggaggctta ggcaggagaa tggcgtgaac ccgggaggcg gagcttgcag tgagccgaga 120
tcccgccact gcactccagc ctgggcgaca gagcgagact ccatctcaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaga aa 202

<210> 9155
<211> 166
<212> DNA
<213> Homo sapiens

<400> 9155
ctgggcgtgg tggcgggtgc ctgtagtccc agctacttgg gaggctgagg caggagaatg 60
gcgtgaaccc gggaggcgga gcttgcagtg agccgagatc aggccactgc actccagcct 120
gggcaacaga gtgagactcc gtctcaaaaa aaaaaaaaaa aagata 166

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<210> 9156
<211> 190
<212> DNA
<213> Homo sapiens

<400> 9156
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aatggcgtga acccgggagg cggagcttgc agtgagccga gatcccgcca ctgcactcca     120
gcctgggcga cagagcgaga ctccgtctca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa     180
aaaaaagaaa                                                            190


<210> 9157
<211> 193
<212> DNA
<213> Homo sapiens

<400> 9157
cgggcgtggt agcgggcgcc tgtagtccca gctactcggg aggctgaggc aggagaatgg      60
cgtgaacccg ggaggcggag cttgcagtga gccgagatcg cgccactgca ctccagcctg     120
ggcgacagag cgagactccg tctcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaattgac     180
tcctaatcaa aaa                                                        193


<210> 9158
<211> 195
<212> DNA
<213> Homo sapiens

<400> 9158
aaatacaaaa attagccggg cgtagtggtg ggcgcctgta gtcccagcta ctcgggaggc      60
tgaggcagga gaatggcgtg aacccgggag gcggagcttg cagtgagccg agatcccgcc     120
actgcactcc agcctgggcg acagagcgag actccgtctc aaaaaaaaaa aaaaaaaaga     180
taattctaac aaaca                                                      195


<210> 9159
<211> 2884
<212> DNA
<213> Homo sapiens

<400> 9159
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atgggcaggc ccatctcata ccccatgcct ggtggcccag ccttgttcct tccccctgcc     180
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ccggctaggg gaggggcact gagaatccac agctgctcct gggcgggggg caggggcggg     480
gccagtgcag caccagcctg gctctctcct gtcggcttca ttccatgacc caaatgcacc     540
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ccaaagctca gttatcagtg tcctgtcttg ctgctatgag ctttttgtac tgataacgac     720
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gctacttggt gctttctaga agagcagtta ggccgaagca tcgaccagga ttgtggtttt    2160
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tctc                                                                 2884


<210> 9160
<211> 136
<212> DNA
<213> Homo sapiens

<400> 9160
ggcaggagaa tggcgtgaac ccgggaggcg gagcttgcag tgagccgaga ttgtgccact      60
gcactccagc ctgggcgaca gagtgagact ccgtctcaaa aaaaaaaaaa aaaaaaaaaa     120
aaaaaaaaaa aaaaaa                                                     136


<210> 9161
<211> 202
<212> DNA
<213> Homo sapiens

<400> 9161
ctactaaaaa tacaaaaaat tagccgggcg tggtagcggg cgcctgtagt cccagctact      60
cgggaggctg aggcaggaga atggcgtgaa cccgggaggc ggagcttgca gtgagccgag     120
atcgcgccac tgcactccag cctgagtgac agagcgagac tccgtctcaa aaaaaaaaaa     180
aaaaaaaaag gttaatatgt aa                                              202


<210> 9162
<211> 153
<212> DNA
<213> Homo sapiens
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<400> 9162
gggcgtggtg gcgggcgcct gtagtcccag ctactcggga ggctgaggca ggagaatggc 60
gtgaacccgg gaggcggagc ttgcagtgag ctgagatcac cccactgcac tccagcctgg 120
gcgacagagt gagactctgt ctcaaaaaaa aaa 153

<210> 9163
<211> 150
<212> DNA
<213> Homo sapiens

<400> 9163
ggcgcctgta gtcccagcta ctcgggaggc tgaggcagga gaatggcgtg aacccgggag 60
gcggagcttg cagtgagctg agatcgcgcc actgcactcc agcctgggcg acagagcgag 120
actctgtctc aaaaaaaaaa aagaattggc 150

<210> 9164
<211> 142
<212> DNA
<213> Homo sapiens

<400> 9164
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gtgagccgag atcccgccac tgcactccag cctgggcgac agagcgagac tccgtctcaa 120
aaaaaaaaaa aaaaaaaatg ga 142

<210> 9165
<211> 181
<212> DNA
<213> Homo sapiens

<400> 9165
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actccagcct gggtgacaga gcgagactcc gtctcaaaaa aaaaaaaaaa aaaaaaagat 180
t 181

<210> 9166
<211> 147
<212> DNA
<213> Homo sapiens

<400> 9166
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cggaggttgc agtgagctga gatcgtgcca ctgcactcca gcctgggtga cagagtgaga 120
ctccatctca aaaaataaaa ataaaaa 147

<210> 9167
<211> 166
<212> DNA
<213> Homo sapiens

<400> 9167
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ggaggcggag cttgcagtga gccgagatcg tgccactgca ctccagcctg ggtgacagag 120
caagactccg tctcaaaaaa aaaaaacaaa aaaaacatgt aggcag 166

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<210> 9168
<211> 268
<212> DNA
<213> Homo sapiens

<400> 9168
cggccgaatt ctgccctccg ctaacgagct atagctttgt ggaaatgggc gagtggcgtg      60
cccttgtgag cctcagggcc gcatctgtaa aatgggcata actgtcatgc ctgtctttaa     120
gaacagcctt ggggtaaat gagtggaact catggaaaga tctcagccca caaccttcca      180
cagaacaggc gcttctcaca cagtaagtag caggagtgca gaggctgcag gcatgaatcc     240
agccagactg cctgggttca agtcccag                                        268


<210> 9169
<211> 368
<212> DNA
<213> Homo sapiens

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<212> DNA
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<212> DNA
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ccatggattc taatgaggat tcctcaaggt atgggaaagg gataggtggt ccacagaata     300
ttctccccaa gcaagcaagc caaagactga gaattacaga aaaacacttt tcttagtatt     360
tttaaatttt aatctttttc tttcatacag ctttatttgt ttcttatctg aact           414
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<210> 9187
<211> 707
<212> DNA
<213> Homo sapiens

<400> 9187
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caggtgatcc acccgccttg gcctcccagc tcatgctgat attacaggca taagccacca     120
cacctagcca agaaaccatt ctttgaacac aagcaaatat actttggaga aaaatttaat     180
aatcctggca gggctacatt caacataatt ctgttatggg ggaaggcagc atgctttggc     240
tgctcagtga gctatgttct gtacaaccaa gtgaaattgc taaaaaaaga ttctcctgta     300
tacagtaact taaagtgatg cagtctactt aagatcagat ctgagttaca aaatcaaaag     360
tgacagctcc tatgttcttt taaagtccaa tctcttttttt tcattgttgt gctccaaatg     420
ccttgagtac ctgatgtaga gtaggtggct aataaatatt ggttgaattt cttgaacgaa     480
tctgttatga aaagatctac tttgctcatc tctgtgcccc aatagcagga gcttgaggag     540
aaggagaaaa tattgggtca gagcttttga ttaatatgta tgattctatt aaacgggttc     600
actaaaccaa aaaaggcaaa ggaaaacagt taaaccaaga gttcttgagg ttaaagtctt     660
gtgatgatta aaatcatcat cctaagatga tgatgacata aactttc                    707
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<210> 9188
<211> 1262
<212> DNA
<213> Homo sapiens

<400> 9188
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tgctcatttt ctgtgttaat tttatggctc agggtccagt taaaaacgtc tgaagggagt     180
ggtaagtaca agagagatgg gagttggggg tggggcttga aggagagcac acctggcccc     240
aggtgacaag actgggctcc agccctgcct catcacagtt ggacatgatg gccctgggtc     300
atttgacttt tgaggacctc aggaaaatga gggagcttaa aaaattctat ggttcctaat     360
gaaatactta gggatgaaat tacagttctg ggatttgctt gaagacacaa tcagccatgg     420
tttgtcactg ttgatgctga gtaatggata tttggtgttc tattgtgagt ctttggtaca     480
tgtttggaat tttccatgaa aaaaccttct gcttctaaaa tgcacacctt gattcttccc     540
atcgccctcc tactggctgg tcctgtgcag ctcactcatt tctcaggaac agcagcagac     600
tcactactct gaaggaaaga aagccctttg ctttggtctg ttcctaatgt acatattatt     660
agagactttt ccgacaccct ccccattttt tatttcttaa cagctaatac gatagctgtg     720
ctttcataat aaattcaaaa gctgctctct atttctcacc agtttgaatt gtagaaaaga     780
gtacaaaaga ttagagtact ttaaaataaa tctcagctaa ttatacatac aactgcattc     840
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atgggcacaa atttagttcc attaaacaaa atgcagcaac tcttctccta tagcgcaaac     960
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gttctagtag gcaaataggt ttgttgatga tgaagtggtt tgtgttttat aagagtcctt    1140
atggtctaga tggcatttga acttgtggtt ccagtgatta ccaggaccct gaattgaaga    1200
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aa                                                                    1262
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<210> 9189
<211> 2239
<212> DNA
<213> Homo sapiens

<400> 9189
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taaacagact gtatggccca taaagcctca aatatttact ttatgggact cgatggaaac 180
tttactgacc cctgatctca gtgtttcttt taagcattgc aaagatagtt tgcaaaaatg 240
ctatgagagc tctatgatgg cattagatac ctaaatgtag cagctgaaaa aaatttccta 300
aagtggtatt aggcctaaaa aaaagtgatt ctagggctac ttaaacaaga agtttttaca 360
gcaagagtta catcctctac tcattttaat gtctaggtaa gccagagctt taaatcctgt 420
attaatttac ctgtgaaaat atttcatatt ctcccttttg tgccgtgtgt gcgttggatt 480
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agtgagccaa gattgcacca ctgcactcca gctagggtga cagagtgtga ccctgtctcc 2220
aaaaaaaaaa aaaaaaaag 2239

<210> 9190
<211> 2239
<212> DNA
<213> Homo sapiens

<400> 9190
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taaacagact gtatggccca taaagcctca aatatttact ttatgggact cgatggaaac 180
tttactgacc cctgatctca gtgtttcttt taagcattgc aaagatagtt tgcaaaaatg 240
ctatgagagc tctatgatgg cattagatac ctaaatgtag cagctgaaaa aaatttccta 300
aagtggtatt aggcctaaaa aaaagtgatt ctagggctac ttaaacaaga agtttttaca 360
gcaagagtta catcctctac tcattttaat gtctaggtaa gccagagctt taaatcctgt 420

attaatttac ctgtgaaaat atttcatatt ctccctttttg tgccgtgtgt gcgttggatt 480
ccccagtggg tgtatagatg aatttataat ttatgtggct ggatggaagc ctgggtaaat 540
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ttcatctaac aaagacaaga gaattgaacg ctgattgtct ttgtctttga agggtttatt 840
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aaaaaaaaaa aaaaaaaag 2239

<210> 9191
<211> 452
<212> DNA
<213> Homo sapiens

<400> 9191
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gttagatatg ctcagggctc agtcctttgc tgtctccaag aattagctag tcctgggagt 180
ctcttccctg ccagcaaaat ttataagata ccagaacatc ataagataca gaaaaaaaac 240
cgtgatgaat gcaacttcac aatattgcct cctttttcct tgcactgcct ttccctgatc 300
cctctaccac tttggttatt gtgacagcaa caagattcat ctttcaacca tctacaccag 360
gggtcagcaa actatgggct gatggccaga tctagccagc tgcttgtttt gtatggccca 420
caaggtaaca atgctagaaa aaaaaaaaga ag 452

<210> 9192
<211> 501
<212> DNA
<213> Homo sapiens

<400> 9192
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attattaaat ttctgtggt gcaattaggg gtcctcctaa gtgcaggtga gctgtggtga 180
ggagttaatg tatgctcagt aaatatgtgc tgaatgcatg agcaaggcag ttattaatct 240
ggttatcatt ggggattcac aaatttcact ttatatcttg taacaaatct caaattgtgc 300
ccctgaaaca tctggatttt gaaaagtgat tccaatccat tgtcatgggt ggcactattc 360

ccagaaatca acaaaggaaa tccaagccac tgagggtttt taaaaaattt tgagtattaa 420
ctagactgtt atactcttct gtgtttatat gtagtaccaa taatcaagac aataaatcca 480
tctttaacaa taatataaaa a 501

<210> 9193
<211> 501
<212> DNA
<213> Homo sapiens

<400> 9193
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aagtaagttt agcagaatgt gctgtcaact tggttgagat aaggcagttg gaggactggc 120
attattaaat tttctgtggt gcaattaggg gtcctcctaa gtgcaggtga gctgtggtga 180
ggagttaatg tatgctcagt aaatatgtgc tgaatgcatg agcaaggcag ttattaatct 240
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ccagaaatca acaaaggaaa tccaagccac tgagggtttt taaaaaattt tgagtattaa 420
ctagactgtt atactcttct gtgtttatat gtagtaccaa taatcaagac aataaatcca 480
tctttaacaa taatataaaa a 501

<210> 9194
<211> 452
<212> DNA
<213> Homo sapiens

<400> 9194
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gttagatatg ctcagggctc agtcctttgc tgtctccaag aattagctag tcctgggagt 180
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cgtgatgaat gcaacttcac aatattgcct cctttttcct tgcactgcct ttccctgatc 300
cctctaccac tttggttatt gtgacagcaa caagattcat ctttcaacca tctacaccag 360
gggtcagcaa actatgggct gatggccaga tctagccagc tgcttgtttt gtatggccca 420
caaggtaaca atgctagaaa aaaaaaaaga ag 452

<210> 9195
<211> 3690
<212> DNA
<213> Homo sapiens

<400> 9195
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gcagtgaggg cacaggcagc accagggtcc cgggtgtgtg ggtgctgccc cagcttgcag 120
tgtggtctcc tcggtgctgg ccacagctgt gggtccccag gaatattgtg ctgcaggtct 180
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aatgtatctg aaaggttgct aatttctcac tgtccttgct tcccaggacg ccaggaaagc 420
atgtgcagat gcaactctct ctcaggtaag agcccactga gtcacgcaga gccatctgcc 480
tgtgaggagg ctagcacggc acccacacct ggagcctcgg gagggctctg cttgcattct 540
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cataggaaat agaggggctt attgagataa aaatgagata tctcaagcct tgaataatca 660
tctacctgtt acagagggta atagttgtaa aatattgtta ttgtcttaag atattttgaa 720
gctcctctcc tcaacagaat ctgcctcaga acttctattt ctaatatcca atttgataat 780
acctcaaaaa gttaaacata gaattattgt atgactcagc agttctgcca ttaaatatat 840
gcccaacagg attgaacact gcttttcaaa cacacacatg tacatagcag caccattcac 900
aatagccaaa atgtagaaac aaccaaaatg tgcataaatg aatgagtgga gaaacaaatt 960
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gctgcaacgt ggataaaccc cataaatatt acgatagtga gagaagccaa acaaatggct 1080
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cagcctcgac gtcctaggct ccagtaaccc ttcctactca gcctcccaag tggcataggc 3600
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<210> 9196
<211> 142
<212> DNA
<213> Homo sapiens

<400> 9196
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aggtggagct tgcagtgagc cgagattgtg ccactgaact ccagcctggg cgacagagcg 120
agactctgtc tcaaaaaaac aa 142

<210> 9197
<211> 1202
<212> DNA

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<213> Homo sapiens

<400> 9197
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ttttctaaag aacagctagg tgaaaggagg ttaagctgat tgtcactctg cctgcccact     180
acctactccc caccatggtg tttcatgaaa catccccacc acctgaagtg atctttttaa     240
tccttgtgat agtaaatgca ttgataatta acaggaaaaa catgttttta aataatctac     300
aaatgagaac ccaaatagta gtgttttgtt tgacagaagt aaatcaaata ttatggttta     360
aatataatgc aaaatttcag gacagttaat ttggacttcc cttaccctaa gagggttttt     420
cttataataa ggagaagagg tgtggttcaa agaaaattaa gagacaaaac cttcaggtac     480
ataatgcatg aaaatcttta aatgcctgca aaaattaagt tctgttataa taccagccaa     540
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aaaaaaaaaa aaaaaaaaga aagcagtggg gcc                                  153


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<212> DNA
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ggcgacagag cgagactccg tctcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaattgac     180
tcctaatcaa aaa                                                        193


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<212> DNA
<213> Homo sapiens

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<212> DNA
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<212> DNA
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<211> 268
<212> DNA
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<211> 368
<212> DNA
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<212> DNA
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<212> DNA
<213> Homo sapiens

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gaaaacagcc atcaaagaag gttgagagtg agaattaaga gacactggag aagatcaaga    300
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<220>
<221> SITE
<222> (1994)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1995)
<223> n equals a,t,g, or c

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aaaaaaaaaa acaagg 2236

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<211> 957
<212> DNA
<213> Homo sapiens

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acaaaacagt tatcattctg accactttta agtgtaccat tcagtggcaa taacttagtg 240
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attccacttt ctgtccctat gaatttgcca attctatata cttcaaaaaa gtataatcat 420
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<210> 9229
<211> 115

<212> DNA
<213> Homo sapiens

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gaggtcagga gatcgagacc atcctggcca acatggtgaa accccatctc tacta 115

<210> 9230
<211> 89
<212> DNA
<213> Homo sapiens

<400> 9230
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gcaagctccg cctcctgggt tcaggccat 89

<210> 9231
<211> 2907
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<220>
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<222> (27)
<223> n equals a,t,g, or c

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ctacagaata aaggatgaag atgagaggtt aaggtttttc taaggcatga agagctgtgg 180
gggcagctgc ccttgttctt tttgtcgtgt gtccttcaca tgcagtaact ctgttcacgc 240
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<211> 4602
<212> DNA
<213> Homo sapiens

<400> 9232
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<211> 443
<212> DNA
<213> Homo sapiens

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<210> 9234
<211> 443

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<212> DNA
<213> Homo sapiens

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<211> 191

<212> DNA
<213> Homo sapiens

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<211> 1936
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<210> 9278
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<212> DNA
<213> Homo sapiens

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<211> 166
<212> DNA
<213> Homo sapiens

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<211> 1936
<212> DNA
<213> Homo sapiens

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<221> SITE
<222> (1768)
<223> n equals a,t,g, or c

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<211> 4602
<212> DNA
<213> Homo sapiens

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<212> DNA
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<212> DNA
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ccatctcaaa aaaaaaaaaa aaaaaaaaaa aaactaataa tc 102

<210> 9287
<211> 109
<212> DNA
<213> Homo sapiens

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tgggcgacag agcaagactc catctcaaaa aaaaaaaaaa aaaaaggac 109

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<212> DNA
<213> Homo sapiens

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aaaaactggt g 131

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<212> DNA

<213> Homo sapiens

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<212> DNA
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ctccgtctca aaaaaaaaaa aaagaaaacc aagttaga 98

<210> 9291
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<212> DNA
<213> Homo sapiens

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<212> DNA
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aaatt 125

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<212> DNA
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<212> DNA
<213> Homo sapiens

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ctctgtctca aaaaaaaaaa aaaaaaaaaa aaaaaaagag t 101

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<212> DNA
<213> Homo sapiens

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gagtgagact ccatctcaaa aaaaaaa 87

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<211> 116
<212> DNA
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cagcctgggc gacagagtga gactctgtct caaaaagaaa aaaaaaaaaa aaagaa 116

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<211> 162
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agccgagatc ccgccactgc actccagcct gggcgacaga gcgagactcc gtctcaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaca aa 162

<210> 9298
<211> 129
<212> DNA
<213> Homo sapiens

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cctgggcgac agagcgagac tccgtctcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaacaaaga 129

<210> 9299
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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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gccactgcac tccagcctgg gcgacagagc gaaactccgt ctcaaaaaaa aaaaaaaaaa     120
aaaaaaaaaa gaggggaaaa                                                 140


<210> 9301
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<212> DNA
<213> Homo sapiens

<400> 9301
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ctgcactcca gcctgggcga cagagcaaga ttccgtctca aaaaaaaaaa aacg           114


<210> 9302
<211> 63
<212> DNA
<213> Homo sapiens

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<210> 9303
<211> 616
<212> DNA
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cctggctcat ctcattttct agaatggata tattgacaaa gaaaagagaa gaaataagaa     180
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catgtggctt aaagtcaccc tgagtctact aaatggttgt gttgtcaata tatctaaata     360
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aaacaagtag ataaaaagtc caacatcaaa aagaaaaaaa aaccatagaa acaattgaag     600
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<210> 9304
<211> 98
<212> DNA
<213> Homo sapiens

<400> 9304
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ggtgacagag tgagactcca tctcaaaaaa aaaaaagg                              98


<210> 9305
<211> 121
<212> DNA
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<213> Homo sapiens

<400> 9305
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a 121

<210> 9306
<211> 108
<212> DNA
<213> Homo sapiens

<400> 9306
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cactgcactc cagcctgggc gacagagcga gactccatct caaaaaa 108

<210> 9307
<211> 95
<212> DNA
<213> Homo sapiens

<400> 9307
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cgagactctg tctcaaaaaa aaaataaata aataa 95

<210> 9308
<211> 115
<212> DNA
<213> Homo sapiens

<400> 9308
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accactgcac tgcagcctgg gtgacagagc aagactccat ctcaaaaaaa aaaaa 115

<210> 9309
<211> 93
<212> DNA
<213> Homo sapiens

<400> 9309
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ccgtctcaaa aaaaaaaaaa aaaaaaaaga aaa 93

<210> 9310
<211> 136
<212> DNA
<213> Homo sapiens

<400> 9310
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gcactccagc ctgggcgaca gagtgagact ccgtctcaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaa 136

<210> 9311
<211> 138

<212> DNA
<213> Homo sapiens

<400> 9311
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aaaaaaaaaa aaaagaaa 138

<210> 9312
<211> 40
<212> DNA
<213> Homo sapiens

<400> 9312
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<210> 9313
<211> 122
<212> DNA
<213> Homo sapiens

<400> 9313
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atcgcgccac tgctctccag cctgggcgac agagcaagac tctgtctcaa aaaaaaaaaa 120
ga 122

<210> 9314
<211> 616
<212> DNA
<213> Homo sapiens

<400> 9314
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agagaatggc taaagg 616

<210> 9315
<211> 4802
<212> DNA
<213> Homo sapiens

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gcaaagacta tcccaacttt ctattaacag tgccaagatt ataactgttt agttggttgc     720
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<212> DNA
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gtgaacaggc aacctataca atgggagaaa aattttgcaa tctactcatc tgacaaaggg    180
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atcaaaaagt gggcaaagta tatgaacaga cacttctcaa aagaagacat ttatgcagct    300
aaaagacaca tgaaaaaatg cccatcatca ctggccatca gagaaatgca aatcaaaacc    360
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<211> 453
<212> DNA
<213> Homo sapiens

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acactgttaa gagacaaaag cagaagggta tctaccatct tgtgctttca gctgtgtgat    360
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<210> 9318
<211> 158
<212> DNA
<213> Homo sapiens

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<210> 9319
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<212> DNA
<213> Homo sapiens
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<212> DNA
<213> Homo sapiens

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<211> 453
<212> DNA
<213> Homo sapiens

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atatccccca tgtacctact gcagggattt tcaatgcagc cctatttatc agaacgacta     180
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gcatagaatt catacacaat atgaatgcat atatgtacac acacgtgcac atctgtttct     420
gcatatgtgt atgggtatat gaggaagcaa gtt                                  453


<210> 9322
<211> 131
<212> DNA
<213> Homo sapiens

<400> 9322
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cggctcactg caagctccgc ctcccgggtt cacgccattc tcctgcctca gcctcccgag     120
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<212> DNA
<213> Homo sapiens

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<211> 453
<212> DNA
<213> Homo sapiens
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gcatatgtgt atgggtatat gaggaagcaa gtt 453

<210> 9325
<211> 969
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<210> 9327
<211> 921
<212> DNA
<213> Homo sapiens

<400> 9327
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<210> 9328
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<212> DNA
<213> Homo sapiens

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<212> DNA
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<211> 1548
<212> DNA
<213> Homo sapiens

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<210> 9331
<211> 1672
<212> DNA
<213> Homo sapiens

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<211> 385
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<211> 373
<212> DNA
<213> Homo sapiens

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<211> 373
<212> DNA
<213> Homo sapiens

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<212> DNA
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a 1861

<210> 9443
<211> 1861
<212> DNA
<213> Homo sapiens

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a 1861

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<210> 9445
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<211> 642
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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aaa 303

<210> 9460

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<211> 303
<212> DNA
<213> Homo sapiens

<400> 9460
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ggcgggcgga tcacttgagg tcaggagatc gagaccagcc tgaccaatat ggtgaaaccc     120
catctctact aaaaatacaa aaattagccg ggcgtggtgg cgcatgccgg taatcccagc     180
tacttgggag gctgaggcag gagaatcgct tgaacctggg aggcagaggt tgcagtgagc     240
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<210> 9461
<211> 522
<212> DNA
<213> Homo sapiens

<400> 9461
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atccaccatt gcgacctgct aagacttgtg ggctggtcat tccgccacta tgacctgcta     120
agacctgccg gctggccagc tgagccatgt gttctgctat gcatcatccc ttcgggtcag     180
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gagacacagt cacttgccga aggtcacact gttagcaaat gtcctcaaat cccaaatcag     300
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agtttgaaga ggatgcctag ggagcttgga tggaggacag gctggcagag gagactggag     420
gcagaggatg ggagtaggag gcgggcgcca cactggcaga gaggagggat cctaagacat     480
agagctgtgg tgtgctaaag cccggctctc aacgcactgt ca                        522


<210> 9462
<211> 303
<212> DNA
<213> Homo sapiens

<400> 9462
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ggcgggcgga tcacttgagg tcaggagatc gagaccagcc tgaccaatat ggtgaaaccc     120
catctctact aaaaatacaa aaattagccg ggcgtggtgg cgcatgccgg taatcccagc     180
tacttgggag gctgaggcag gagaatcgct tgaacctggg aggcagaggt tgcagtgagc     240
ctaggtcgtg ccactgcact ccagccttgg acacagagca agactgtctc aaaaaaaaaa     300
aaa                                                                   303


<210> 9463
<211> 522
<212> DNA
<213> Homo sapiens

<400> 9463
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atccaccatt gcgacctgct aagacttgtg ggctggtcat tccgccacta tgacctgcta     120
agacctgccg gctggccagc tgagccatgt gttctgctat gcatcatccc ttcgggtcag     180
ccccgtgagg tagagtttgt tatgatccct attttgcaga tgagaaaact gaggcttagg     240
gagacacagt cacttgccga aggtcacact gttagcaaat gtcctcaaat cccaaatcag     300
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agtttgaaga ggatgcctag ggagcttgga tggaggacag gctggcagag gagactggag     420
gcagaggatg ggagtaggag gcgggcgcca cactggcaga gaggagggat cctaagacat     480
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<210> 9464
<211> 522
<212> DNA
<213> Homo sapiens

<400> 9464
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agtttgaaga ggatgcctag ggagcttgga tggaggacag gctggcagag gagactggag 420
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agagctgtgg tgtgctaaag cccggctctc aacgcactgt ca 522

<210> 9465
<211> 303
<212> DNA
<213> Homo sapiens

<400> 9465
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ggcgggcgga tcacttgagg tcaggagatc gagaccagcc tgaccaatat ggtgaaaccc 120
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tacttgggag gctgaggcag gagaatcgct tgaacctggg aggcagaggt tgcagtgagc 240
ctaggtcgtg ccactgcact ccagccttgg acacagagca agactgtctc aaaaaaaaaa 300
aaa 303

<210> 9466
<211> 522
<212> DNA
<213> Homo sapiens

<400> 9466
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atccaccatt gcgacctgct aagacttgtg ggctggtcat tccgccacta tgacctgcta 120
agacctgccg gctggccagc tgagccatgt gttctgctat gcatcatccc ttcgggtcag 180
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gagacacagt cacttgccga aggtcacact gttagcaaat gtcctcaaat cccaaatcag 300
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<210> 9467
<211> 303
<212> DNA
<213> Homo sapiens

<400> 9467
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ggcgggcgga tcacttgagg tcaggagatc gagaccagcc tgaccaatat ggtgaaaccc 120
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tacttgggag gctgaggcag gagaatcgct tgaacctggg aggcagaggt tgcagtgagc 240
ctaggtcgtg ccactgcact ccagccttgg acacagagca agactgtctc aaaaaaaaaa 300
aaa 303

<210> 9468
<211> 2127
<212> DNA
<213> Homo sapiens

<400> 9468
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ccacactaac cactttttcg ataattaaaa gaatcatttg aaatattttt tttaattgaa 180
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aaaccacacc aaatgtgggt tcatctg 2127

<210> 9469
<211> 342
<212> DNA
<213> Homo sapiens

<400> 9469
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tgggcttcct gacggccaca ttcctggtga tctatcccaa cgtgtcagag gaggccaagg 180
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agtccgtggt ctgagccgca ctcccgttta cacacattcc ag 342

<210> 9470
<211> 218

<212> DNA
<213> Homo sapiens

<400> 9470
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cggtgacagg agtcggtggc tgcacacttt gtagactcgt caagctgtca gcacttcagg 180
tgtttgcaag caaagccctt cttagtgtgc aggtcagt 218

<210> 9471
<211> 1932
<212> DNA
<213> Homo sapiens

<400> 9471
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taactggttc cctaagacag ctggaaatag agaatgtcat ggagcattcc taaccatggg 120
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ctttgccaca gtttccttgt ctatgaaaag ggaaatggct cccacctcaa aaagttgtta 420
acattaaatt caatcatgta ttcaaagtcc tgagcagaat gtctggccat gactgggact 480
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gggaggcaga ggttgcagtg agcccagatc acgccactgc actccagcct ggtgacagag 1860
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agccctccgt aa 1932

<210> 9472
<211> 707
<212> DNA
<213> Homo sapiens

<400> 9472
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gacattgggt tgttttagaa aattgcctgc aagtgtcagg gtgataagtt aaagctttgt 120
cttttgccct cagaggagct atcccatagt gagtagaagc cagagaagct gaccccagga 180
gtccttcttt ccagcagcag gtcttgagct gcacttctct gtagctacaa tccaggcagg 240

aacaagccct aggtacctcc ggagaggagg gcaagagagg aagaatgagt tcagctactc 300
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gtttgttttg tttcattttg ttttcttaaa ttgtatattt gaaagatggc attaactaaa 420
gatatatatt caatatagag tggaaaaaat ggaatacttg catagtatct tttacttata 480
ggtgatttat gatgggggagt ggggtggata ggttggcagt tcccccaaga agttggaaat 540
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ttgtagttaa gagcacactc tagaaccaga ttgcttagtt tcaaatcctg gttctgcctt 660
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<210> 9473
<211> 279
<212> DNA
<213> Homo sapiens

<400> 9473
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tgtgcatctt atattaacta tccaaatata tcaagcgtca tttgctatat ataaaagtca 120
tcaaattagg cactgtgggg gatacggagt tggcatacta gcctggcctc ttaattaatt 180
cattaattag cttatttatt tttgagatag gtcttgctct attgcccagg ctggagtgca 240
gtggcatgat gatagcttac tatagcctca atctcccag 279

<210> 9474
<211> 1118
<212> DNA
<213> Homo sapiens

<400> 9474
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tgctgtattg aggacttggt gttgatctct accgctggtc agttgggcac tcagcggtgg 120
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tgtaaaagca gaggcttgtt tctaacatct atacttttaa gaaattcttt ttttctctta 1080
ccctggtcat aagaaaaaag aaaaaaaaga aaaaagaa 1118

<210> 9475
<211> 328
<212> DNA
<213> Homo sapiens

<400> 9475
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gtcagagaaa gcaagcaata actgagaaag gcaagtataa gcaaaataat tgttaccctc 180
caatgccaag gcaagatttg gacttaaatc tttaataagc acagctgaag tttttgatat 240
taagtcgaca tgatcacttc tgtgcattag attataaaac taggtataaa actgatataa 300

tatgtaggcg tgaaggcagg ggccaaag 328

<210> 9476
<211> 267
<212> DNA
<213> Homo sapiens

<400> 9476
cccagcagtt tgggaggccg aggcaggtgg atcacgaggt caggagatcg aaaccatcct 60
agctagcacg gtgaaaccca gtctctacta aaaatacaaa aaaaaaaatt agccgggcat 120
ggtggcgggc acctgtagtc ccagctactc gggaggctga ggcaggagga tggcgtgaac 180
ccaggaggcg gagcttgcag tgagccgaga ttgcgccact gcactccagc ctgggtggca 240
gaagcgagac tccgtctcaa aaataaa 267

<210> 9477
<211> 142
<212> DNA
<213> Homo sapiens

<400> 9477
cgggcgcctg tagtcccagc tactcgggag gctgaggcag gagaatggcg tgaacccagg 60
aggtggagct tgcagtgagc cgagattgtg ccactgaact ccagcctggg cgacagagcg 120
agactctgtc tcaaaaaaac aa 142

<210> 9478
<211> 184
<212> DNA
<213> Homo sapiens

<400> 9478
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aacctgggag gcggagcttg cagtgagccg agatcgcgcc actgcactcc agcctgggcg 120
acagagcgag agtccgtctc aaaaaaaaaa aaaaaaaaga aaagaaaaaa gaacaaacaa 180
cagc 184

<210> 9479
<211> 183
<212> DNA
<213> Homo sapiens

<400> 9479
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tgaggcagga gaatggcgtg aacccgggag gtggagcttg cagtgagctg agatcgtgcc 120
actgcactcc agcctgggcg acagagcgag actccgtctc aaaaaaaacc cacaaacaac 180
aaa 183

<210> 9480
<211> 193
<212> DNA
<213> Homo sapiens

<400> 9480
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aggagaatgg cgtgaacccg ggaggcggag cttgcagtga gccgagatcg cgccactgca 120
ctccagcctg ggcgacagag cgagactccg tctcaaaaaa aaaaaaaaaa aaaaaaaaga 180
tcagaaaaaa ata 193

<210> 9481
<211> 153
<212> DNA
<213> Homo sapiens

<400> 9481
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gtgagccgag atcgcgccac tgcactccag cctgggcgac agagcgagac tccgtctcaa 120
aaaaaaaaaa aaaaaaaaga aagcagtggg gcc 153

<210> 9482
<211> 193
<212> DNA
<213> Homo sapiens

<400> 9482
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cgtgaacccg ggaggcggag cttgcagtga gccgagatcg cgccactgca ctccagcctg 120
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tcctaatcaa aaa 193

<210> 9483
<211> 150
<212> DNA
<213> Homo sapiens

<400> 9483
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gcggagcttg cagtgagctg agatcgcgcc actgcactcc agcctgggcg acagagcgag 120
actctgtctc aaaaaaaaaa aagaattggc 150

<210> 9484
<211> 122
<212> DNA
<213> Homo sapiens

<400> 9484
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atcgcgccac tgctctccag cctgggcgac agagcaagac tctgtctcaa aaaaaaaaaa 120
ga 122

<210> 9485
<211> 166
<212> DNA
<213> Homo sapiens

<400> 9485
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ggaggcggag cttgcagtga gccgagatcg tgccactgca ctccagcctg ggtgacagag 120
caagactccg tctcaaaaaa aaaaaacaaa aaaaacatgt aggcag 166

<210> 9486
<211> 268
<212> DNA

<213> Homo sapiens

<400> 9486
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cccttgtgag cctcagggcc gcatctgtaa aatgggcata actgtcatgc ctgtctttaa     120
gaacagcctt gggggtaaat gagtggaact catggaaaga tctcagccca caaccttcca     180
cagaacaggc gcttctcaca cagtaagtag caggagtgca gaggctgcag gcatgaatcc     240
agccagactg cctgggttca agtcccag                                        268
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<210> 9487
<211> 1090
<212> DNA
<213> Homo sapiens

<400> 9487
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ttagcattag gtatatctcc taatgctatc tgtgcccccct cccccaaccg cacaacaggc     180
cccggtgtgt gatgttcccc ttcctgtgtc catgtgttct cattgttcaa ttcccaccta     240
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tttccagctt catccatgtc cctacaaagg acatgaactc atcatttttt atggctgcat     360
agtattccat ggtgtatatg tgccacattt tcttaatcca gtctatcatt gttggacatt     420
tgggttggtt ctaagtcttt gctattgtga atagtgccac aataaacata cgtgtgcatg     480
tgtctttata gcagcatgat ttatagtcct ttgggtatat acccagtaat gggatggctg     540
ggtcaagtgg tatttctagt tctagatccc tgaggaatcg ccacactgac ttccacaatg     600
gttgaactag tttacagtcc caccaacagt gtaaaagtgt tcccatttct ccatatcctc     660
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atctcattgt ggttttgatt tgcatttctc tgatggccag tgatgatgag cattttttca     780
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actttttgat ggggttgttt gtttttttct tgtaaatttg tttgagttca ttttagattg     900
tggatattag ccttttgtca gatgagtaga ttgcaaaaat tttctcccat tctgtaggtt     960
gcctgttcac tctgatggta gtttcttttg ctgtgcagaa gctctttaga ttaattagat    1020
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tgcccgtgcc                                                           1090
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<210> 9488
<211> 1483
<212> DNA
<213> Homo sapiens

<400> 9488
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tactagtttc ttggctgtca ttctatgcat ttataaacag ttgcattttt ttccccttat     180
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agaatattcc ataaaatatt ctataaaata ctgctttgaa tatttgcacc actatctttt     360
tttcttttttt tttttgagat ggattctcgc tctactgccc aggctggagt acagtggcac     420
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attagctcat tgaggtatga gttgaatgta tccagattta taaattttaa aagagggatt     600
tacaaaagtc ctctaagtct tgctttaagt taatggttag agctgtgaaa acctaattaa     660
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accattttaa tcattttaag tgtatagcta agtggcatta aatacattca caatattgta     780
taaccaccac cactttctat ttccagaagt ttttcatcac ccaaactaca actctattaa     840
agtaataact actcatttcc ttcccgtcct cccagcccct ggtaacctgt actctgcttt     900
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tcctttttttg tctggcttat ttcacttagc ataatgtttt caaggctcat ccatattgta    1020
agcatacgga ggaataatct attggaatat ttttatatag catattattt acatataata    1080
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aaaagttgat gaacgcatac atattaaaaa aaaaaaaaaa aaa 1483

<210> 9489
<211> 465
<212> DNA
<213> Homo sapiens

<400> 9489
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gtaattctgt gttcaacttt ctttttgaga tggagtccca ctctgtcacc caggctggag 180
tgcagtggtg cgatctgggc tcactgaagt ctctgcctcc tgggttgaag cgattctcat 240
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aggtcaccca ccctcctcag cctcccaaag tgctgggatt gcaggcgtga gccaccaagc 420
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<210> 9490
<211> 1516
<212> DNA
<213> Homo sapiens

<400> 9490
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catgtcacag gtgaaa 1516

<210> 9491
<211> 351

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<212> DNA
<213> Homo sapiens

<400> 9491
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gtcacaccac catggaatct tctcttttga tttagtgagg gagactggcg tcttctagat     180
gtgcagtgta tgacaagctt ctctcatcct tgcatgtctg cagaggtgtg acatggtttt     240
gtgacacagc ttctagtctt ggggggattc attgtgctca cccttttttt cctggccagt     300
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<210> 9492
<211> 1618
<212> DNA
<213> Homo sapiens

<400> 9492
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gtgctgctta atgacgtttt ggtcaacaat gggccacata tatgatggtc caaagcacta     180
tactgtacat catctcattg gaaaacctta tgaaatagga gggcaactat catcataatc     240
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atccatgtgc ttggatgtct ctatcctggt tccgtactct ttccgctatg atatactgcc     360
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gttttagtaa aattgatatc cagtaatact ataatgtatt tagatcaagt tagcacctaa     480
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atgcctgtag cccaagcact ttggcaggct gaagcaggag gatcacttga gcccaggagt    1560
agaagaccag cctgggcagc atagtgagac cccatttct acaaaaaaaa aaaaaaaa       1618


<210> 9493
<211> 1618
<212> DNA
<213> Homo sapiens

<400> 9493
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gttttagtaa aattgatatc cagtaatact ataatgtatt tagatcaagt tagcacctaa     480
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tgtgggtgca gatattatag aaaccagaat acatgggtga tgactgttcc actcaccatc 660
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<210> 9494
<211> 3532
<212> DNA
<213> Homo sapiens

<400> 9494
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ggcaggtact ctgtgttgtt atttatgccc ctgttggcag acgtgatgtc agcaagccca 180
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<210> 9495
<211> 929
<212> DNA
<213> Homo sapiens

<400> 9495
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acataagaga atggggtgtg aactttggat cagtgcggcc tggatatcag ctgtgtggtg 180
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caggtcggag agctcacctc catggattcc gtagagcttt gaggcgtatc cacaaagtgt 540
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aagcatggtg cagtggtggg gtttggtcat taatttgata atcacatgga atacaagcta 660
atgtttattg agtacttact gcctgcctgc tactgtaact aagtgcttta ctcctgttat 720
ctcatttaat tctcaaagca gccctgtggc actgaggtgg ctggagatgg agggatgtgt 780
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ctctgtttta tgtatatttg aaaaaaaaa 929

<210> 9496
<211> 1590
<212> DNA
<213> Homo sapiens

<400> 9496
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<213> Homo sapiens

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<211> 101
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<210> 9500
<211> 1392
<212> DNA
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<211> 90
<212> DNA
<213> Homo sapiens

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<212> DNA
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<211> 961
<212> DNA
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<212> DNA
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<212> DNA
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<211> 285
<212> DNA
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<210> 9520
<211> 145
<212> DNA
<213> Homo sapiens

<400> 9520
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<210> 9521
<211> 129
<212> DNA
<213> Homo sapiens

<400> 9521
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<210> 9522
<211> 261
<212> DNA
<213> Homo sapiens
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<400> 9522
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<211> 131
<212> DNA
<213> Homo sapiens

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<210> 9524
<211> 5070
<212> DNA
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<211> 1152
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1110)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (1112)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1120)
<223> n equals a,t,g, or c

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<211> 890
<212> DNA
<213> Homo sapiens

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<211> 1429
<212> DNA
<213> Homo sapiens
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<210> 9528
<211> 937
<212> DNA
<213> Homo sapiens

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<210> 9529
<211> 129
<212> DNA
<213> Homo sapiens

<400> 9529
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<210> 9530
<211> 1155
<212> DNA
<213> Homo sapiens

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<210> 9531
<211> 1156
<212> DNA
<213> Homo sapiens

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<211> 585
<212> DNA
<213> Homo sapiens

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<210> 9560
<211> 1116
<212> DNA
<213> Homo sapiens

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<210> 9561
<211> 731
<212> DNA
<213> Homo sapiens

<400> 9561

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<211> 387
<212> DNA
<213> Homo sapiens

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<211> 760
<212> DNA
<213> Homo sapiens

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<211> 760
<212> DNA
<213> Homo sapiens

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ggatacataa aagctggagt atgcataatc gtcttgcaag agttcttaaa tctctgtata     180
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<210> 9565
<211> 1234
<212> DNA
<213> Homo sapiens

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<210> 9566
<211> 1234
<212> DNA
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<400> 9566
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<210> 9567
<211> 378
<212> DNA
<213> Homo sapiens

<400> 9567
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<210> 9568
<211> 378
<212> DNA
<213> Homo sapiens

<400> 9568
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<210> 9569
<211> 427
<212> DNA
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<400> 9569
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<211> 11601
<212> DNA
<213> Homo sapiens

<400> 9570
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<210> 9579
<211> 1613
<212> DNA
<213> Homo sapiens

<400> 9579
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cagggagtca ttacctagct ctttcactta ctcatgtgcc aatgtgaatg tgttacttca     180
cttctcctgc ctcttgtcta cagtgggcag gaggtaagcc tcacggtgtg actgtgaagc     240
caagtgaaat ctcacaccta cctcagaggc ctttttccca ctctcctttt ctgactcttt     300
taatattttc tcaattattt atagtaataa taataataca atgccaattg ttcattcatt     360
catccattta aatcccaaag gaatttaaaa gaagagtaac atttaacctg acaaagacaa     420
aaggaggaag ctttttaggt aatattaatt ataataaagt aacaataata acaacaataa     480
taatagcaag ctcatataag caagaagcaa tagtcagtgt gtcatgtttt gggggaatta     540
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cctgggcaag tgaatagatt agaaaacaag atttgtaggg aaagatgaaa aacagttatt    1560
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<210> 9580
<211> 1616
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<212> DNA
<213> Homo sapiens

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cagggagtca ttacctagct ctttcactta ctcatgtgcc aatgtgaatg tgttacttca 180
cttctcctgc ctcttgtcta cagtgggcag gaggtaagcc tcacggtgtg actgtgaagc 240
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attcatccat ttaaatccca aaggaattta aaagaagagt aacatttaac ctgacaaaga 420
caaaaggagg aagcttttta ggtaatatta attataataa agtaacaata ataacaacaa 480
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tgacctgggc aagtgaatag attagaaaac aagatttgta gggaaagatg aaaaacagtt 1560
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<210> 9581
<211> 946
<212> DNA
<213> Homo sapiens

<400> 9581
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aatatgtaac caactaaaat tgggttgtgg gaggctgcag aaagcagaga gagactaatt 180
caccattgct caaaataaag tgtcaatact gtctaaagaa tgtactctcc aaacttcaca 240
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tggctctgaa ttggttgaca ctcttactaa cttggacatt cgaaagttat gtagtcactt 360
attttcctca tctgtagaga aaggctacac tggtgaaatg agatcatgaa gctaaaatgc 420
ccaaaggtag gcctggggca cagttggtta tcattaataa tagttattat cagttgtaga 480
tacttaggag gactaaaata aatatggaac ccaatatcct agtagatgag taagagaggg 540
ttcgcagacc tcgtgggtgt gaacgtaggg agtgttgtat ggagtcagac caaccaaaca 600
aagggagttg gcatttgcgg tcactcagat tttatgcagc caggttactg ctggctctgg 660
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cccccaaaat ccagcattat tcataatcgc atctttcatc atcaatttgg ggaaagtctt 780
tggtacacag tcaattcctg ggatgcaaa tgatgatttc ttcctttttt ttttgagacg 840
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<210> 9582
<211> 164
<212> DNA
<213> Homo sapiens

<400> 9582
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tcgctctatc acccaagctg gagtgtggtg gtgagatctt ggctcactgc aacctctgcc 120
tcccagttca ctctattctc ctgcctcagc ctcctgagta gctg 164

<210> 9583
<211> 1115
<212> DNA
<213> Homo sapiens

<400> 9583
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tgccagattc cttggcaggt ttcattaaga gagatgcaca ggccggacgt ggttgctcac 840
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taggggttga ggctgcagga agccatgata gtgcccctgc acacttcagc ctgggtgaca 1080
gagcaagacc ctgtctcaaa aaaaaaaaaa aaaaa 1115

<210> 9584
<211> 1114
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1114)
<223> n equals a,t,g, or c

<400> 9584
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aggaggggct ggcaagcaac ctttagaagc aggtctgaag ggacttgtca ggggttcccc 180
aggtaggaaa taggggtcac ctgtgccccc agcccacctg ccattgaggt gctagccccc 240
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aggagtacag catagaaaat aagtctttcc atccaaattg gaaatgaaaa ggccctggta 360
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tagaaatggg gcggctctga actttctctc tgtaacccca ggcacatgtg tgcagacttg 480
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gccagattcc ttggcaggtt tcattaagag agatgcacag gccggacgtg gttgctcaca 840
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agaccagcct gggcaacatg gcaaaacccc atctctacaa aaatacaaaa attagcccac 960

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aggggttgag gctgcaggaa gccatgatag tgcccctgca cacttcagcc tgggtgacag   1080
agcaagaccc tgtctcaaaa aaaaaaaaaa aaan                               1114


<210> 9585
<211> 1115
<212> DNA
<213> Homo sapiens

<400> 9585
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aggaggggct ggcaagcaac ctttagaagc aggtctgaag ggacttgtca ggggttcccc    180
aggtaggaaa taggggtcac ctgtgccccc agcccacctg ccattgaggt gctagccccc    240
agaggcctgt tatctttgta tagatgctgg gggcatcagg acagcctgaa acactgtttc    300
caggagtaca gcatagaaaa taagtctttc catccaaatt ggaaatgaaa aggccctggt    360
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gagaccagcc tgggcaacat ggcaaaaccc catctctaca aaaaatacaa aaattagccc    960
acgtggtggc acacacccgt ggtcccagct acttgggagg ctgaggtagg ggttgagccc   1020
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<210> 9586
<211> 499
<212> DNA
<213> Homo sapiens

<400> 9586
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acttgcacaa gcagcacttg tacactgaca catatccgtt tgtgcctata cagtgcacac    180
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gcacacatac tacacacttg agcgtgcagc acacatacct atgtgcatac atgcacattt    300
gcacatgcac acagcagtgg cacacacttc tctatcactc tccctagtca ctgttctccc    360
ctgtgattcc cacccctctg accgcccctg ctcacttgct gccccctcca ctggaagggg    420
cctggcctgg tgccctgtct ctgtctgtct ccaccgtgca gggaggtttc acaaggactg    480
gctgatgtct cgcctcgag                                                 499


<210> 9587
<211> 970
<212> DNA
<213> Homo sapiens

<400> 9587
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ggactccctg gagagccctg ggaaaagcag gtccccgcct gcctgggcct ctgcctctgc    300
tgcaggggcc agcacaggtg tcaggtcccc acacatttca tgtccaggcc attttcccac    360
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ctgtgacgag gaggcatctg tgacctgtgt gatctgccag gcaggcagca caagtcattg 960
tactgctact 970

<210> 9588
<211> 585
<212> DNA
<213> Homo sapiens

<400> 9588
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tttcaattgc ctgctgctgt gcagggtctg aactaagagc aagaaattgg aggatgctgg 180
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gtcccactgg tgacacccat gggtgcagcc atggcgggtg ggcgc 585

<210> 9589
<211> 2695
<212> DNA
<213> Homo sapiens

<400> 9589
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<210> 9590
<211> 427
<212> DNA
<213> Homo sapiens

<400> 9590
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gcaagtaata ttctctttaa agagctggga aatcaagccc agataattca taagcactta 180
caacatgcca cacatcccta tgaagtatac aaactactac aattcccatt ttatagatga 240
ggaaactgat ggaacttgcc caagaccaca taactaggaa gtagtagagt caggattcaa 300
atctagaaag tctggctctt gttcagctgg gctaggaagt tgatgcatgt ggtgcagagg 360
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gtgcctc 427

<210> 9591
<211> 516
<212> DNA
<213> Homo sapiens

<400> 9591
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tctataatga accatagact aacaaagatt ttataaaatg actttcaaag gatttttttcc 480
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<210> 9592
<211> 3297
<212> DNA
<213> Homo sapiens

<400> 9592
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<210> 9593
<211> 434
<212> DNA

<213> Homo sapiens

<400> 9593
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atgagccact gtgcccagcc aagggagttg aagtcttaaa ggaaagaccc aggaaaacag 180
atatagggtc caaaaggcag aaaaggattc taggggttgt aaacacccag gtaaccctgg 240
tgaaaggctt tgttgcctcc agatggtggg acaggagttc caccgcaggc aggattaggt 300
ggtattttca ttcatttctt tttaggttaa tacattggct tagggacagg atcctattcc 360
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tacagctcag agaa 434

<210> 9594
<211> 152
<212> DNA
<213> Homo sapiens

<400> 9594
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aatggcacga tctcggctca ctgcaaccac cgcctccagg gttcaagcga ttctcctgtc 120
tcagcctccc gagtagctgg gattataggc gt 152

<210> 9595
<211> 460
<212> DNA
<213> Homo sapiens

<400> 9595
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tccagttccc tggacttttc tcatatgata tgtactcgag 460

<210> 9596
<211> 460
<212> DNA
<213> Homo sapiens

<400> 9596
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ccctctatgt cattcctggc aggtggacat gaagctccag gtaagaggca agcatccgtg 180
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<210> 9597
<211> 303
<212> DNA
<213> Homo sapiens

<400> 9597
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gcactccagc ctgggtgaca gaacgagact ctgtctcaaa aaaaaaaaaa aaaaaaagaa 300
aga 303

<210> 9598
<211> 296
<212> DNA
<213> Homo sapiens

<400> 9598
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<210> 9599
<211> 1003
<212> DNA
<213> Homo sapiens

<400> 9599
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ttgtcaatta attaatatca ttgccatttg aggagtggag gaatttcaga gtggcttagt 780
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<210> 9600
<211> 116
<212> DNA
<213> Homo sapiens

<400> 9600
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ccactgcact ccagcctggg cgacagagca agattctgtc tcaaaaaaaa aaaaaa 116

<210> 9601
<211> 1849
<212> DNA
<213> Homo sapiens

<400> 9601
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aaatatatgg tgtaccagat aatgatgtgt gctaggaatt aaaaataaa 1849

<210> 9602
<211> 1849
<212> DNA
<213> Homo sapiens

<400> 9602
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gctccgtatg cactgagccc agagctgatt ttatctgcca tgaaaagagg atgtggaaca 240
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aaatatatgg tgtaccagat aatgatgtgt gctaggaatt aaaaataaa 1849

<210> 9603
<211> 390
<212> DNA
<213> Homo sapiens

<400> 9603
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ctattttttt ctgtttagga aattaataca tgttctctgt agaaaatata gaaagcacag 180
aaaagcatca ccattcactg ataaccagtg ttagtagttt ggtacatgtc cttcttttct 240
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ttattatttt tttaagagac catgtctcgc tctgtcaccc aggctggagt gcagtggttc 360
aatcatagct caccacagcc ttgaactcct 390

<210> 9604
<211> 301
<212> DNA
<213> Homo sapiens

<400> 9604
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cctggagggc caagtgagga ggcctctgtt ggagtgcctg aaatgtctgg cttcgggacc 180
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a 301

<210> 9605
<211> 301
<212> DNA
<213> Homo sapiens

<400> 9605
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taggcgttta ggggaagaat accaactgtc agggacgaat gagagaacag gccaagcagc 120
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<210> 9606
<211> 390
<212> DNA
<213> Homo sapiens

<400> 9606
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aatcatagct caccacagcc ttgaactcct 390

<210> 9607
<211> 1109
<212> DNA
<213> Homo sapiens

<400> 9607
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tgtcttgata agaactccag gttctcccac gaaccgttct gatactatta attaaaagca 240
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<213> Homo sapiens

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<211> 1344
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 1344
<212> DNA
<213> Homo sapiens

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<211> 438
<212> DNA
<213> Homo sapiens

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<210> 9625
<211> 438
<212> DNA
<213> Homo sapiens

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gaatacacac acttaaaaat ggattattca caatttttaa gcataaaaca agacacagtg     360
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<210> 9626
<211> 840
<212> DNA
<213> Homo sapiens

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<211> 840
<212> DNA
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<211> 2585
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 1595
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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<210> 9636
<211> 1107
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
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<210> 9642
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<212> DNA
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<210> 9645
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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
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<212> DNA
<213> Homo sapiens

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<210> 9679
<211> 807
<212> DNA
<213> Homo sapiens

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<211> 492
<212> DNA
<213> Homo sapiens

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ataaatgtga cagaaatagg aatgcctgtt tatggtcata tacggccaat actttcatta 180
cagccaaact catacatgca gccaaataag aggcccctgg atacacagga aatcagaata 240
aaaaaagaac tgaacattta atagtcttct ttcattcaat caataatttt ttttaattaa 300

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gcaactacta tgtccaggta accttctagg tcctggggat acagagttct ctgcttacag      360
aagtcatatg taagtagcag gtgaagagta tgtgtttcac agaaggttat tacaatatat      420
taacaagagc aaaaaatttt ggaagcaatc taaatgttca ataatagagc tccaattaaa      480
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<211> 296
<212> DNA
<213> Homo sapiens

<400> 9681
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cctaatttct ttaggcccat gttggtaaag gtgactgaga tggagacagt tcataaagag      180
cttaggcatg tagatcacaa aaactgtctc tgcatgtatt cagcttaagt tttagccctt      240
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<212> DNA
<213> Homo sapiens

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ctcgggagac tgaggcagga gaatggcgcg aaccgggagg cgcagcttgc agtgagccga      180
gatcgcgcca ctgcactcta gcctgggtga cagaaagaga ctccttctca aaaaaataaa      240
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<211> 806
<212> DNA
<213> Homo sapiens

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ctataatttg cctaaaccaa aaaggaaggt gtaggtaaag ttctagtcag gacaggatgg      180
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gatgagtagt tgcccaatca gagcccatta tttgtaagtc atcagccccc ttcatgacct      780
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<210> 9684
<211> 494
<212> DNA
<213> Homo sapiens

<400> 9684
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<210> 9685
<211> 809
<212> DNA
<213> Homo sapiens

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ttaaaaactc cactctgacc taattattg 809

<210> 9686
<211> 1807
<212> DNA
<213> Homo sapiens

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<211> 448
<212> DNA
<213> Homo sapiens

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<210> 9688
<211> 974
<212> DNA
<213> Homo sapiens

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<210> 9689
<211> 974
<212> DNA
<213> Homo sapiens

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<211> 974
<212> DNA
<213> Homo sapiens

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<210> 9691
<211> 607
<212> DNA
<213> Homo sapiens

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<210> 9692
<211> 607

<212> DNA
<213> Homo sapiens

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<211> 607
<212> DNA
<213> Homo sapiens

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gcgcaggccg gggcggagaa cgcatcccgc acgtccaggg tatgtcccaa atcttgattc 480
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cgaaagg 607

<210> 9694
<211> 957
<212> DNA
<213> Homo sapiens

<400> 9694
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<211> 102
<212> DNA
<213> Homo sapiens

<400> 9708
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<213> Homo sapiens

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<211> 128
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<210> 9712
<211> 128
<212> DNA
<213> Homo sapiens

<400> 9712
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<210> 9713
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<212> DNA
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<210> 9714
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<212> DNA
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<212> DNA
<213> Homo sapiens

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<210> 9716
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<213> Homo sapiens

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<211> 596
<212> DNA
<213> Homo sapiens

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<210> 9718
<211> 596
<212> DNA
<213> Homo sapiens

<400> 9718
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<210> 9719
<211> 1435
<212> DNA
<213> Homo sapiens

<400> 9719

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<212> DNA
<213> Homo sapiens

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<211> 129
<212> DNA
<213> Homo sapiens

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<210> 9724
<211> 826
<212> DNA
<213> Homo sapiens

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<211> 100
<212> DNA
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<212> DNA
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<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
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